

Application for Certification

Part 1

STATE OF CALIFORNIA
CALIFORNIA ENVIRONMENTAL PROTECTION AGENCY
CALIFORNIA AIR RESOURCES BOARD
MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY

CARB USE ONLY

Invoice Name	MSF250720-2
Invoice Date	Mar 13, 2026

COMPANY INFORMATION

Company Name	Ford Motor Company
Address	1 American Road
City	Dearborn
State	Michigan
Zip	48126-2798
Country	United States
Contact Name	Tina Oliver
Contact Telephone Number	313-3238938
Contact Email	toliver@ford.com
CARB Customer Number	CCAM000031

APPLICATION INFORMATION

Row Number	Previous Unique Application Identifier	Previously Selected Category Type	Previously Selected Fee Type	Paid Amount	Corrected Unique Application Identifier	Corrected Category Type	Corrected Fee Type	Corrected Amount	Amount Due
1	VFMXT03.0TPC	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.0TPC	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
2	VFMXT03.57AV	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.57AV	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
3	VFMXT03.54HT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.54HT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
4	VFMXT03.57AT	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 25,155.00	VFMXT03.57AT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 25,154.00
5	VFMXT02.34K2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT02.34K2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
6	VFMXT03.0JP1	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 25,155.00	VFMXT03.0JP1	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 25,155.00	\$ 0.00
		Light-duty vehicle test group and				Light-duty vehicle test group and			
7	VFMXT02.02JF	medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT02.02JF	medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
8	VFMXT02.34K4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT02.34K4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
9	VFMXT03.33F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.33F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
10	VFMXT03.51F2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.51F2	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
11	VFMXT03.01HS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.01HS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
12	VFMXT03.57A7	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.57A7	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
13	VFMXT03.57A8	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.57A8	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
14	VFMXT03.01EW	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.01EW	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
15	VFMXT03.54JK	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.54JK	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
16	VFMXT05.03DP	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT05.03DP	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
17	VFMXT05.2AHS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT05.2AHS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
18	VFMXT03.51F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT03.51F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
19	VFMXT01.52X4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	VFMXT01.52X4	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 50,309.00	\$ 0.00
		Light-duty vehicle test				Light-duty vehicle test			

46	VFMXV00.0PLR	application submitted	Full Refund (100%)	\$ 0.00	VFMXV00.0PLR	application submitted	Full Refund (100%)	\$ 0.00	\$ 0.00
Total Invoice (MSF250720-1) Paid				\$ 1,049,476.00	Total Corrected				\$ 1,074,830.00
					Total Due				\$ 25,154.00

Notes
 Changed fee type for VFMXT03.57AT from Partial Carry-Over to Base Fee.

I, David .. attest that any information provided is true, accurate, and complete.
 (Responsible Party Signature Here)

From: [Landt, Michael \(M.R.\)](#)
To: [Oliver, Tina \(T.A.\)](#); [Pietron, Mark \(M.S.\)](#)
Subject: FW: MS Fee Payment Confirmation for Invoice MSF250720-2
Date: Wednesday, April 8, 2026 3:37:22 PM
Attachments: [MSF250720-2 - signed.pdf](#)

Attached invoice has been received by CARB. Let me know if you need anything further.

Best Regards,

Mike Landt
mlandt1@ford.com
248-302-5069

From: noreply@salesforce.com <noreply@salesforce.com> **On Behalf Of** California Air
Sent: Wednesday, April 8, 2026 1:06 PM
To: Landt, Michael (M.R.) <mlandt1@ford.com>
Subject: MS Fee Payment Confirmation for Invoice MSF250720-2

WARNING: This message originated outside of Ford Motor Company

Use caution when opening attachments, clicking links, or responding.

[Report Suspicious](#) 

Dear Tina Oliver

Attached is documentation for your MS Fee payment for Invoice Name MSF250720-2.
Please include a copy of this invoice and email with each application that is listed when submitting your application to the applicable MS Fee program.

1. Payment ID – N/A
2. Date of Payment – 3/24/2026
3. Payment Status - Paid





FORD MOTOR COMPANY APPLICATION FOR CERTIFICATION - PART 1

2027 Model Year

Test Group:	VFMXT03.57AT
Durability Group:	VFMXGPGNNE1C
Evap. Families:	VFMXR0260NDV VFMXR0200GDG
Test Group Description:	2027MY 3.5L Expedition/Navigator
Durability Group Description:	Four Stroke, Otto Cycle, Gasoline Fueled, Turbocharged, Catalyst Code E
Carlines Covered:	EXPEDITION 2WD EXPEDITION 4WD NAVIGATOR 2WD NAVIGATOR 4WD
Federal Applicable Standards:	Federal Exhaust - Interim Tier 4 Bin 50 Federal Evap - Tier 3 FTP CH ₄ - 0.030 g/mi FTP N ₂ O - 0.010 g/mi FTP PM - 0.003 g/mi COLD CO - Cold NMHC - 0.4 g/mi SFTP NMOG+NO _x - 0.060 g/mi
California Applicable Standards:	California Exhaust - LEV-III ULEV50 California Evap - LEV-III FTP PM - 0.003 g/mi US06 PM - 0.006 g/mi SFTP NMOG+NO _x - 0.060 g/mi

Vehicles Tested

Exhaust Emission Vehicle:		Evaporative Emission Vehicle:	
RFD1-3.5-J-850/Config 0		jfc1-5.0-J-029/Config 0 (VFMXR0260NDV)	
FTP (E10) TN	RFMX91005597	2Day TN	JFMX10049672
HWY (E10) TN	RFMX91005596	3Day TN	JFMX10049673
US06 (E10) TN	RFMX91005595	BETP	JFMX10049769
SC03 (E10) TN	RFMX10082154	Linking TN	JFMX10048057
Cold CO (E10) TN	RFMX10082174	ORVR	JFMX10049676
		RL TN	JFMX10049674
		JFC1-2.7-032/Config 0 (VFMXR0200GDG)	
		3Day TN	JFMX10047781
		BETP	JFMX10048127
		Linking TN	JFMX10047780
		RL TN	JFMX10047782
		ORVR	JFMX10047788

Release Date: July 20, 2026

For Questions, Contact:

Pietron, Mark, mpietron@ford.com (1-313-8057139)



Part 1 Application Index

- § 00.00.00.00 Cover Page**
- § 02.00.00.00 Durability Group Description**
- § 03.00.00.00 Evaporative/ Refueling Family Description**
- § 04.00.00.00 Durability Procedure Description**
- § 05.00.00.00 Test Group Description**
- § 06.00.00.00 Test Vehicle Description**
- § 07.00.00.00 Test Results**
 - 07.00.01.00 EPA Certification Summary Information (CSI) report(s)
- § 08.00.00.00 Emission Testing Waiver Statements**
 - 08.00.01.00 Statements of compliance
- § 09.00.00.00 OBDII System Description**
- § 11.00.00.00 AECD Descriptions**
- § 12.00.00.00 Description of Vehicles Covered by Certificate and Test Parameters**
 - 12.00.01.00 Common Family Parameters
 - 12.00.02.00 Calibration Description
 - 12.00.03.00 Calibration Parts List
 - 12.00.05.00 Test Vehicle Requirements
 - 12.00.06.00 Vehicle Description Reports
- § 14.00.00.00 Request for Certification**
- § 15.00.00.00 Other Information**
 - 15.00.01.00 Fee Filing Form
- § 16.00.00.00 Confidential Information**
 - 16.00.01.00 Family Catalyst Information
 - 16.00.03.00 OBD II Deficiency Summary
 - 16.00.04.00 DF Summary
 - 16.00.05.00 PowerTrain Control Module (PCM) - Parameters
- § 17.00.00.00 California ARB Information**
 - 17.00.01.00 Certification Review Sheet
 - 17.00.02.00 Supplemental Data Sheet
 - 17.00.03.00 VECI Label
- § 18.00.00.00 Revisions**

Part 2 Application Index **(Running change updates)**



SECTION 2

Durability Group Description

For a description of the Durability Group for this test group refer to Section 16.00.00.00 of the Common Section.



SECTION 3

Evaporative/Refueling Family Description

Evaporative Family and Calibration Parameters

Evaporative Family Name: VFMXR0200GDG

2027 3.5L GTPFDI Expedition / Navigator (24.7 gallon fuel tank, Tank Code 'US')

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Capless Insert MU5A-9D000-CB	None	Fuel Tank Vapor	Operates in EVAP and / or ORVR	
Fuel Filler Pipe Without Capless Insert RL14-9032-AC	None	Vapor Recirculation, Liquid Fuel Flow, Fuel Tank Vapor	Operates in EVAP and / or ORVR	2.7 mm Diameter Recirculation Orifice
Fuel Limiting Vent Valve JL14-9B190-AA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and / or ORVR	Main: 12.7mm Diameter
Grade Vent Valve JL14-9B593-BA (2 per tank)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	2.25mm Orifice
Fuel Tank Pressure Sensor 9U5A-9C052-BC	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister JL34-9D653-AC	None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	200g BWC 3.5 liter Total Volume (includes 0.066L Bleed)
Canister Purge Valve (CPV) EU5A-9G866-CE	Signal from PCM	Vacuum to canister	Operates in FTP	100 SLPM
Vapor Blocking Valve (VBV) GU5A-9G712-CC	None	Fuel Tank Vapor	Operates in FTP	
AIS Hydrocarbon Trap GN15-9T303-AA	None	Fuel Vapor	Operates in EVAP	

Test Group:
Issued: 12/12/2025
Revised:

03.00.01.00

Evaporative Family and Calibration Parameters

Evaporative Family Name: VFMXR0260NDV

2027 3.5L GTPFDI Expedition MAX / Navigator L (30.0 gallon fuel tank, Tank Code 'UL')

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Capless Insert MU5A-9D000-CB	None	Fuel Tank Vapor	Operates in EVAP and / or ORVR	
Fuel Filler Pipe Without Capless Insert RL14-9032-AC	None	Vapor Recirculation, Liquid Fuel Flow, Fuel Tank Vapor	Operates in EVAP and / or ORVR	2.7 mm Diameter Recirculation Orifice
Fuel Limiting Vent Valve JL14-9B190-AA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and / or ORVR	Main: 12.7mm Diameter
Grade Vent Valve JL14-9B593-BA (2 per tank)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	2.25mm Orifice
Fuel Tank Pressure Sensor 9U5A-9C052-BC	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister JL34-9D653-CD	None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	260g BWC 3.8 liter Total Volume (includes 3 x 0.048L Bleed)
Canister Purge Valve (CPV) EU5A-9G866-CE	Signal from PCM	Vacuum to canister	Operates in FTP	100 SLPM
Vapor Blocking Valve (VBV) GU5A-9G712-CC	None	Fuel Tank Vapor	Operates in FTP	
AIS Hydrocarbon Trap GN15-9T303-AA	None	Fuel Vapor	Operates in EVAP	

Test Group:
Issued: 12/12/2025
Revised:



SECTION 4

Durability Procedure Description

For a description of the Durability Procedure,
refer to Section 16.00.00.00 of the Common Section.



SECTION 5

Test Group Description

For a description of this Test Group, refer to the Cover Page (00.00.00.00) and to the Test Results Section (07.00.00.00) of this application.



SECTION 6

Test Vehicle Description

For a description of the Test Vehicles utilized in this Test Group,
refer to Section 07.00.00.00 of this application.



SECTION 7

EPA Certification Summary Information Report (Test Results)

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/01/2026 09:34:23 AM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition direct & ported injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	No
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VFMXGPGNNE1C	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	07/20/2026	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VFMXT03.57AV
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	E10 City Litmus Value = 12.5 mpg, City Litmus Threshold = 12.4 mpg, E10 HWY Litmus Value = 14.4 mpg, HWY Litmus Threshold = 14.3 mpg Confirmatory tested at EPA. EPA US06 test is RFMX91005595. PM for US06 IS from APTL test RFMX10082173: RESULT = 1.0 MG/MILE VS. 6 MG/MILE standard.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	01/21/2026 01:37:18 PM				
Integrated ORVR?	Yes	Fuel(s)	Gasoline				
Multiple Fuel Storage	--						
Bladder Fuel Tank?	No						
Fuel Tank Material	Plastic	Fuel Tank Material Description	Plastic				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	Hydrocarbon trap				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	3.4L 3-port Rect+ 0.066L Bleed				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	200	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	1				
Mfr Evaporative/Refueling Family Comments	Vehicle Lines Covered : 5.0L PFDI F-150, 3.5L GTPFDI F-150 Police Responder, 3.5L GTPFDI Expedition, 3.5L GTPFDI Navigator						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
VFMXR0200GDG-001	50 State	0.02	VFMXR0200GDG-001				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Ford Motor Company	1 - Ford	241 - EXPEDITION 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	240 - EXPEDITION 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	115 - NAVIGATOR 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	241 - EXPEDITION 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	116 - NAVIGATOR 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	115 - NAVIGATOR 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	240 - EXPEDITION 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	116 - NAVIGATOR 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Engine Description			
Hybrid Type	--	Hybrid Description	--
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	--
Engine Block Arrangement	V-shaped engine	Mfr Engine Block Arrangement Description	--
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 5W-30 API SP ILSACGF7
Number of Cylinders/Rotors	6	Mechanically Variable Compression Ratio Indicator	N
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic
2	Three-way catalyst	Platinum + Rhodium	Ceramic
3	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic
4	Three-way catalyst	Platinum + Rhodium	Ceramic
Mfr After Treatment Device (ATD) Comments			
2TWC			
Direct Ozone Reduction (DOR) Device			
Not Equipped			
Mfr Emission Control Device Comments			
--			

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Engine Configuration Number 1			
Engine Displacement (liters)	3.5	Engine Rated Horsepower	440
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	TiVCT		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated air fuel	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Navigator / Expedition (High Output) (98 RON Ratings)		

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG								
Engine Configuration Number 2											
Engine Displacement (liters)	3.5	Engine Rated Horsepower	400								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2								
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	TiVCT										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4								
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated air fuel	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	Expedition (91 RON Ratings)										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		RFMX91005597	RFMX91005595	RFMX10082154	RFMX10082174	RFMX91005596	61.9	228.2	999.9	286.1	--
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline		RFMX91005597	RFMX91005595	RFMX10082154							

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG					
Emission Data Vehicle Information								
Vehicle ID / Configuration	JFC1-2.7-032 / 0	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	JFMXT02.73JK	Original Evaporative/Refueling Family	JFMXR0200GDG					
Original Test Vehicle Model Year	2018							
Vehicle Model								
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F-150					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	JFMXR0200GDG-001					
Drive Sources and Fuel System Details								
	<table border="1"> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	JTFCWQNB05	Rated Horsepower	325					
Displacement (liters)	2.7							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel					
Charge Air Cooler Type	Air	Drive Mode While Testing	Part-time 4-Wheel Drive					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)					
Curb Weight (lbs)	4903	Equivalent Test Weight (pounds)	5250					
GVWR (lbs)	7000	N/V Ratio	25.7					
Axle Ratio	3.73							
Transmission Type	Semi-Automatic	# of Transmission Gears	10					
Transmission Lockup	Yes	Creep Gear	No					
Dynamometer Coefficients:								
	Target Coefficients		Set Coefficients					
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
City/Highway/Evap	41.31	0.1955	0.03765					
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)					
	20.655	0.0391	0.03765					
	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients							
	19.4							
Emission Control Device Comments	T18-0011/12/13-01 T3B70 L3B70							

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Manufacturer Test Vehicle Comments	2.7L GTPFDI F-150 4X4 SUPER CAB-MAX SMALL TANK		

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Test #	JFMX10047780	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/23/2017	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	13
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4075	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	447.6404109	--
FE BAG 1 (Bag 1 Fuel Economy)	19.3154956	19.3154956
CO2 BAG 2 (Bag 2 Carbon Dioxide)	415.2761362	--
FE BAG 2 (Bag 2 Fuel Economy)	20.9112862	20.9112862
CO2 BAG 3 (Bag 3 Carbon Dioxide)	391.2054303	--
FE BAG 3 (Bag 3 Fuel Economy)	22.1421459	22.1421459
METHANE (CH4 - Methane)	0.0146173	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.30131	--
DT-EER (Drive Trace Energy Economy Rating)	-0.738517	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.229238	--
MFR FE (Manufacturer Fuel Economy)	20.8849977	20.8849977
NOX (Nitrogen Oxide)	0.0115416	--
N2O (Nitrous Oxide)	0.0015267	--
HC-NM (Non-methane Hydrocarbon)	0.0170713	--
NMOG (Non-methane organic gases)	0.018781	--
HC-TOTAL (Total Hydrocarbon)	0.0311041	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	416	999
Optional Carbon-Related Exhaust Emissions	417	999

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
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	Test Result Name	Unrounded Test Result		Verify Calculated CO2
	Carbon dioxide	415.3632963		--

Manufacturer Test Comments J032 FTP, NMOG = 1.04 * NMHCr

Test #	JFMX10047781	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	JFMX10047780	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/09/2017	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	3992	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

	Test Result Name	Unrounded Test Result		Verify Calculated FE Equivalent Value (miles per gallon)
	OMHCE (Organic material Hydrocarbon Equivalent)	0.2989		--
	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2989		--

Manufacturer Test Comments J032 RL & 3-Day SHED

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2989	0.0000	0.299	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2989	0.0000	0.299	0.500	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG									
Test #	JFMX10047782	Test Procedure	32 - Federal Fuel Running Loss									
Exhaust Test # for this Evap Test	JFMX10047780	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	03/09/2017	Fuel	Gasoline									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	APTL											
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)											
Test Start Odometer Reading	4004	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	No											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No									
Test Results												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--										
Manufacturer Test Comments												
Running Loss Test												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail				
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.000	0.000	0.00	0.05	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.000	0.000	0.00	0.05	Pass				

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG									
Test #	JFMX10047788	Test Procedure	24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	JFMX10047780	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	03/20/2017	Fuel	Gasoline									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	APTL											
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)											
Test Start Odometer Reading	4039	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	No											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No									
Test Results												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0.009</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.009</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0.009	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.009	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.009	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.009	--										
Manufacturer Test Comments												
ORVR Test												
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail				
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.009	0.013	0.02	0.20	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.009	0.013	0.02	0.20	Pass				

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG						
Test #	JFMX10048127	Test Procedure	65 - Evap Canister Bleed Test						
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)						
Test Date	03/09/2017	Fuel	Gasoline						
Fuel Batch ID	--	Fuel Calibration Number	--						
Vehicle Class	N/A	DF Type	Mfr. Determined						
Verify Test Lab ID	APTL								
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)								
Test Start Odometer Reading	4017	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.01</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL (Total Hydrocarbon)	0.01	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL (Total Hydrocarbon)	0.01	--							
Manufacturer Test Comments									
BETP test used Method A BETP Testing is THC Only (not OMHCE/THCE)									
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail	
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0100	0	0.010	0.020	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0100	0	0.010	0.020	Pass	

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG						
Emission Data Vehicle Information									
Vehicle ID / Configuration	RFD1-3.5-J-850 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RFMXT03.57AT	Original Evaporative/Refueling Family	RFMXR0260NDG						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 RAPTOR 4WD						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	RFMXR0260NDG-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	RTFDBMNR01	Rated Horsepower	450						
Displacement (liters)	3.5								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	6023	Equivalent Test Weight (pounds)	6500						
GVWR (lbs)	7400	N/V Ratio	24.6						
Axle Ratio	4.1								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family		VFMXR0200GDG	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	50.64	0.4139	0.04767	23.06	0.3191	0.04551	25.4	
Cold CO	50.64	0.4139	0.04767	23.06	0.3191	0.04551	N/A	
US06	50.64	0.4139	0.04767	23.06	0.3191	0.04551	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		F150 RAPTOR (P702) 3.5L GTPFDI 4X4						

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Test #	RFMX10082174	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	06/09/2023	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	48
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3936	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	774.49131	--
FE BAG 1 (Bag 1 Fuel Economy)	11.13547	11.13547
CO2 BAG 2 (Bag 2 Carbon Dioxide)	603.96328	--
FE BAG 2 (Bag 2 Fuel Economy)	14.33276	14.33276
CO2 BAG 3 (Bag 3 Carbon Dioxide)	579.32183	--
FE BAG 3 (Bag 3 Fuel Economy)	14.94799	14.94799
METHANE (CH4 - Methane)	0.01401	--
CO (Carbon Monoxide)	0.36086	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7396	--
DT-EER (Drive Trace Energy Economy Rating)	0.0441	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4004	--
MFR FE (Manufacturer Fuel Economy)	13.7	13.7
NOX (Nitrogen Oxide)	0.036659	--
N2O (Nitrous Oxide)	0.01	--
HC-NM (Non-methane Hydrocarbon)	0.0881	--
NMOG (Non-methane organic gases)	0.09162	--
HC-TOTAL (Total Hydrocarbon)	0.10281	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	633.8776	--
Optional Carbon-Related Exhaust Emissions	637.1624	--

Certification Summary Information Report

Test Group		VFMXT03.57AT				Evaporative/Refueling Family				VFMXR0200GDG			
		Test Result Name		Unrounded Test Result		Verify Calculated CO2							
		Carbon dioxide		632.5307		--							
Manufacturer Test Comments		SPORT MODE WITH START STOP ACTIVE											
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail	
Fed	50,000 miles	Federal Tier 4 Bin 50	CO	0.36	--	--	--	0	--	0.4	12.5	Pass	
Fed	120,000 miles	Federal Tier 4 Bin 50	HC-NM	0.09	--	--	--	0	--	0.1	0.4	Pass	
CA	50,000 miles	California LEV-III ULEV50	CO	0.36	--	--	--	--	--	0.4	12.5	Pass	

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Test #	RFMX91005597	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/29/2023	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4056	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	621.9162598	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	535.137146	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	521.0828247	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0054263	--
CO (Carbon Monoxide)	0.1378368	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.2492224	--
DT-EER (Drive Trace Energy Economy Rating)	-0.126445	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2801158	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0056335	--
N2O (Nitrous Oxide)	0.0013227	--
HC-NM (Non-methane Hydrocarbon)	0.0113492	--
NMOG (Non-methane organic gases)	0.0124655	--
PM (Particulate Matter)	0.0007157	--
HC-TOTAL (Total Hydrocarbon)	0.016566	--

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family				VFMXR0200GDG			
		Test Result Name		Unrounded Test Result			Verify Calculated CREE/OPT-CREE					
		Carbon-Related Exhaust Emissions		9999.999999			999					
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		549.2374878			--					
Manufacturer Test Comments		None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2, FE BAG 3										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 50	CO	0.14	--	--	--	0	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	CO-COMP	0.16	--	--	--	0	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 50	METHANE	0.0054	--	--	--	0	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	N2O	0.0013	--	--	--	0	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0125	--	1.1	--	0	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX	0.0181	--	--	--	--	--	0.018	0.050	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX-COMP	0.0174	--	--	--	0	--	0.017	0.060	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	PM	0.0007	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.14	--	--	--	--	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.16	--	--	--	--	--	0.2	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0125	--	1.1	--	--	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0181	--	--	--	--	--	0.018	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0174	--	--	--	--	--	0.017	0.060	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0056	--	--	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0007	--	--	--	--	--	0.001	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG																																				
Test #	RFMX91005596	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																				
Test Date	08/29/2023	Fuel	Gasoline																																				
Fuel Batch ID	28637	Fuel Calibration Number	1																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	--																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	4067	Odometer Units	M																																				
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	--																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
Test Results																																							
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Manufacturer Test Comments	None																																						

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family					VFMXR0200GDG		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0074	--	1.03	--	0	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX	0.0157	--	--	--	--	--	0.016	0.050	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0083	--	--	--	0	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0074	--	1.03	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0157	--	--	--	--	--	0.016	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0083	--	--	--	--	--	0.008	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Test #	RFMX91005595	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/29/2023	Fuel	N/A
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4087	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	901.545166	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	561.78479	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0078544	--
CO (Carbon Monoxide)	0.2910527	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.9343482	--
DT-EER (Drive Trace Energy Economy Rating)	-2.0381536	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.9290042	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0145577	--
N2O (Nitrous Oxide)	0.004389	--
HC-NM (Non-methane Hydrocarbon)	0.0157066	--
NMOG (Non-methane organic gases)	0.0161778	--
HC-TOTAL (Total Hydrocarbon)	0.0234511	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	637.0206909	--

Manufacturer Test Comments

None Unrounded Result for the following test results were modified by Verify: FE BAG 2, FE BAG 1, MFR FE

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Test #	RFMX10082154		Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--		Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/07/2023		Fuel	N/A
Fuel Batch ID	373-B		Fuel Calibration Number	79
Vehicle Class	N/A		DF Type	Mfr. Determined
Verify Test Lab ID	APTL			
E10 Evaporative Test Measurement Method	--			
Test Start Odometer Reading	3922		Odometer Units	M
4WD Test Dyno	No		Diesel Adjustment Factor Usage	--
State of Charge Delta	No			
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)		Road Speed Fan Usage	No
Test Results				
Test Result Name		Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)		0.00403	--	
CO (Carbon Monoxide)		0.07884	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)		0.0835	--	
DT-EER (Drive Trace Energy Economy Rating)		0.5509	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)		0.323	--	
MFR FE (Manufacturer Fuel Economy)		13.1	13.1	
NOX (Nitrogen Oxide)		0.002635	--	
HC-NM (Non-methane Hydrocarbon)		0.0039	--	
NMOG (Non-methane organic gases)		0.00402	--	
HC-TOTAL (Total Hydrocarbon)		0.0081	--	
Test Result Name		Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions		667.15	--	
Test Result Name		Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide		666.72585	--	
Manufacturer Test Comments		SPORT MODE WITH START STOP ACTIVE		

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	13
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/21/2017
Fuel Batch Calibration Effective Date	02/23/2017	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.747
Fuel Ethanol Volume Percent (%)	9.9	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17942
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	79
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/21/2023
Fuel Batch Calibration Effective Date	06/21/2023	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17922
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	375-B	Fuel Calibration Number	48
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	06/29/2023
Fuel Batch Calibration Effective Date	06/29/2023	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17881
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family		VFMXR0200GDG		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Both		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 4 Bin 50		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0	0.030
150,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.060
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-III ULEV50		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.060
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family			VFMXR0200GDG	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 4 Bin 50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.4

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 4 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family			VFMXR0200GDG	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	PM	--	--	--	--	--	--	--	0.006

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 4 Bin 50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	12.5

Evaporative/Refueling Standards

Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name		Rounded Result	Std	Add DF	
Gasoline	150,000 miles	OMHCE		--	0.20	0.013	

Certification Summary Information Report

Test Group		VFMXT03.57AT		Evaporative/Refueling Family		VFMXR0200GDG	
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0000		
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.500	0.0000		
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.05	0.000		
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		

Certification Summary Information Report

Test Group		VFMXT03.57AT		Evaporative/Refueling Family		VFMXR0200GDG					
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		Federal					
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap					
Test Procedure		Federal fuel 3-day evap									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.500		0.0000	
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		Federal					
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap					
Test Procedure		Federal fuel refueling test (ORVR)									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.20		0.013	
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		California + CAA Section 177 states					
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)					
Test Procedure		Federal fuel 3-day evap									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		OMHCE		--		0.500		0.0000	
Evaporative/Refueling Family		VFMXR0200GDG		Cert Region		Federal					
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap					
Test Procedure		Federal Fuel Running Loss									
Fuel		Useful Life		Emission Name		Rounded Result		Std		Add DF	
Gasoline		150,000 miles		HC-TOTAL-EQUIV		--		0.05		0.000	

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family		VFMXR0200GDG
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family		VFMXR0200GDG
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family		VFMXR0200GDG
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	

Certification Summary Information Report

Manufacturer	Ford Motor Company	Manufacturer Code	FMX
Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	05/01/2026 09:34:23 AM
Model Year	2027		

Test Group Information

CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		

Drive Sources and Fuel(s)

Drive Source #1: Combustion Engine

Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator
Gasoline	Spark Ignition direct & ported injection	No

Hybrid Indicator	No		
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	No
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	No
Fuel Cell Indicator	No	EPA Vehicle Class	LDT4
Federal Clean Fuel Vehicle	No	Federal Clean Fuel Vehicle Standard	--
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No
Durability Group Name	VFMXGPGNNE1C	Durability Group Equivalency Factor	1.0
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA
Complies with HD GHG 2b/3 regulations?	No		
Introduction into Commerce Date	07/20/2026	CAP2000 Conditional Certificate?	N/A
Independent Commercial Importer?	--	Alternative Fuel Converter Certificate?	--
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	No
SFTP LEV-III Composite Compliance Indicator	Yes		
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	VFMXT03.57AV
Test Group OBD Compliance Level	Partial - with deficiencies	Number of Test Group OBD Deficiencies	2
OBD Deficiencies Comments	--		
Mfr Test Group Comments	E10 City Litmus Value = 12.5 mpg, City Litmus Threshold = 12.4 mpg, E10 HWY Litmus Value = 14.4 mpg, HWY Litmus Threshold = 14.3 mpg Confirmatory tested at EPA. EPA US06 test is RFMX91005595. PM for US06 IS from APTL test RFMX10082173: RESULT = 1.0 MG/MILE VS. 6 MG/MILE standard.		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Evaporative/Refueling Family Information			
Evaporative Summary Information Type	Update for Correction	Submission/Correction Date	01/22/2026 07:45:24 AM
Integrated ORVR?	Yes	Fuel(s)	Gasoline
Multiple Fuel Storage	--		
Bladder Fuel Tank?	No		
Fuel Tank Material	Other	Fuel Tank Material Description	Plastic
Fill Pipe Seal Type	Liquid seal		
Air Intake System Vapor Storage Device?	Yes	Air Intake System Vapor Storage Device Description	1 X 3.7L HA 3-port Rect. + 3 X 0.048L Bleed
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	260	Number of Primary Canisters	1
Number of Bleed Canisters	3	Bleed Canister Total Working Capacity (grams)	1
Mfr Evaporative/Refueling Family Comments	F-150/Expedition/Navigator Large tank. Vehicle Lines Covered; 5.0L PFDI F-150, 5.2L SC F-150 Raptor R, 3.5L GTPFDI Expedition MAX, 3.5L GTPFDI Navigator L		
Leak Family Details			
Leak Family Indicator	Yes		
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State
Evaporative Canister Bleed Test Comments	--		
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--
CARB Fuel Only (Rig) Test Comments	--		
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
VFMXR0260NDV-001	50 State	0.02	VFMXR0260NDV-001

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
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Models Covered by this Certificate

Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Ford Motor Company	1 - Ford	241 - EXPEDITION 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	115 - NAVIGATOR 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	116 - NAVIGATOR 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	116 - NAVIGATOR 4WD	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	240 - EXPEDITION 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	241 - EXPEDITION 4WD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	240 - EXPEDITION 2WD	California + CAA Section 177 states	2-Wheel Drive, Rear	Semi-Automatic	10	Yes
Ford Motor Company	2 - Lincoln	115 - NAVIGATOR 2WD	Federal	2-Wheel Drive, Rear	Semi-Automatic	10	Yes

Engine Description	
Hybrid Type	--
Engine Type	4-Stroke Spark Ignition
Engine Block Arrangement	V-shaped engine
Camless Valvetrain Indicator	No
Number of Cylinders/Rotors	6
Hybrid Description	--
Mfr Engine Description	--
Mfr Engine Block Arrangement Description	--
Oil Viscosity/Classification	SAE 5W-30 API SP ILSACGF7
Mechanically Variable Compression Ratio Indicator	N

After Treatment Device(s) (ATD)

ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
4	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith

Mfr After Treatment Device (ATD) Comments	2TWC
Direct Ozone Reduction (DOR) Device	Not Equipped
Mfr Emission Control Device Comments	--

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Engine Configuration Number 1			
Engine Displacement (liters)	3.5	Engine Rated Horsepower	440
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air
Air Aspiration Drive Method(s)	Mechanical		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	TiVCT		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated air fuel	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	Navigator / Expedition (High Output) (98 RON Ratings)		

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV								
Engine Configuration Number 2											
Engine Displacement (liters)	3.5	Engine Rated Horsepower	400								
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2								
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2								
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air								
Air Aspiration Drive Method(s)	Mechanical										
Cylinder Deactivation	No										
Cylinder Deactivation Description	--										
Variable Valve Timing	Yes										
Variable Valve Timing System Description	TiVCT										
Variable Valve Lift?	No										
Variable Valve Lift System Description	--										
Number of Knock Sensors	2	Number of Air/Fuel Sensors	4								
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	--								
Air/Fuel Sensor # 2 Type	Heated air fuel	Air/Fuel Sensor # 2 Description	--								
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--								
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--								
Mfr Air/Fuel Sensor Comments	--										
Exhaust Gas Recirculation	Yes	Cooled Exhaust Gas Recirculation	Yes								
EGR Type	Electronic/Electric	Exhaust Gas Recirculation Description if 'Other'	--								
Closed Loop Air Injection System	No										
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--								
Mfr Engine Configuration Comments	Expedition (91 RON Ratings)										
Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Gasoline		RFMX91005597	RFMX91005595	RFMX10082154	RFMX10082174	RFMX91005596	61.9	228.2	999.9	286.1	--
SFTP LEV-III Official Test Numbers											
Test Group	Fuel	FTP	US06	SC03							
Gasoline		RFMX91005597	RFMX91005595	RFMX10082154							

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV						
Emission Data Vehicle Information									
Vehicle ID / Configuration	JFC1-5.0-J-029 / 0	Manufacturer Vehicle Configuration Number	1						
Original Test Group Name	JFMXT05.03DN	Original Evaporative/Refueling Family	JFMXR0260NDG						
Original Test Vehicle Model Year	2018								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 Super Cab 4X4						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	JFMXR0260NDG-001						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline		
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	JTFCAVNC05	Rated Horsepower	395						
Displacement (liters)	5								
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--						
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	5217	Equivalent Test Weight (pounds)	5500						
GVWR (lbs)	7850	N/V Ratio	25.7						
Axle Ratio	3.73								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VFMXT03.57AT			Evaporative/Refueling Family			VFMXR0260NDV
Dynamometer Coefficients:							
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	44.39	0.1933	0.03931	26.94	0.1117	0.0368	20.3
Cold CO	44.39	0.1933	0.03931	26.94	0.1117	0.0368	N/A
US06	44.39	0.1933	0.03931	26.94	0.1117	0.0368	N/A
Emission Control Device Comments	Test Request t18-0006-01; T3B125 / ULEV125						
Manufacturer Test Vehicle Comments	2018MY F150 Super Cab 4x4						

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	JFMX10048057	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	03/04/2017	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	13
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4867	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	593.7469258	--
FE BAG 1 (Bag 1 Fuel Economy)	14.4883336	14.4883336
CO2 BAG 2 (Bag 2 Carbon Dioxide)	588.179163	--
FE BAG 2 (Bag 2 Fuel Economy)	14.748881	14.748881
CO2 BAG 3 (Bag 3 Carbon Dioxide)	515.8187807	--
FE BAG 3 (Bag 3 Fuel Economy)	16.7965514	16.7965514
METHANE (CH4 - Methane)	0.008781	--
CO (Carbon Monoxide)	0.7106258	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	1.3945	--
DT-EER (Drive Trace Energy Economy Rating)	1.18092	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.84808	--
HCHO (Formaldehyde)	0.0011057	--
MFR FE (Manufacturer Fuel Economy)	15.2136817	15.2136817
NOX (Nitrogen Oxide)	0.024514	--
N2O (Nitrous Oxide)	0.0017543	--
HC-NM (Non-methane Hydrocarbon)	0.0261758	--
NMOG (Non-methane organic gases)	0.0288016	--
PM (Particulate Matter)	0.000822	--
HC-TOTAL (Total Hydrocarbon)	0.0339089	--

Page 9 of 37 CSI Submission/Revision Date: 05/01/2026 09:34:23 AM

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV																					
Emission Data Vehicle Information																								
Vehicle ID / Configuration	JFC1-5.0-J-029 / 1	Manufacturer Vehicle Configuration Number	1																					
Original Test Group Name	JFMXT05.03DP	Original Evaporative/Refueling Family	JFMXR0260NDV																					
Original Test Vehicle Model Year	2018																							
Vehicle Model																								
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 Super Cab 4X4																					
Leak Family Details																								
Leak Family Identifier	001	Leak Family Name	JFMXR0260NDV-001																					
Drive Sources and Fuel System Details																								
<table><tr><td>Drive Source and Fuel#</td><td>Drive Source</td><td>Fuel</td></tr><tr><td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr></table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline															
Drive Source and Fuel#	Drive Source	Fuel																						
1	Combustion Engine	Gasoline																						
Hybrid Indicator	No																							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--																					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--																					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--																					
Off-board charge Capable Indicator	--																							
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03																					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles																							
Odometer Correction Units	Miles																							
Engine Code	JTFCAVNC06	Rated Horsepower	395																					
Displacement (liters)	5																							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'																						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--																					
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear																					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)																					
Curb Weight (lbs)	5217	Equivalent Test Weight (pounds)	5500																					
GVWR (lbs)	7850	N/V Ratio	25.7																					
Axle Ratio	3.73																							
Transmission Type	Semi-Automatic	# of Transmission Gears	10																					
Transmission Lockup	Yes	Creeper Gear	No																					
Dynamometer Coefficients:																								
<table><tr><td colspan="3">Target Coefficients</td><td colspan="3">Set Coefficients</td><td rowspan="3">EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</td></tr><tr><td>Coefficient Category</td><td>A (lbf)</td><td>B (lbf/mph)</td><td>C (lbf/mph**2)</td><td>A (lbf)</td><td>B (lbf/mph)</td><td>C (lbf/mph**2)</td></tr><tr><td>City/Highway/Evap</td><td>44.39</td><td>0.1933</td><td>0.03931</td><td>26.94</td><td>0.1117</td><td>0.0368</td></tr></table>				Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	City/Highway/Evap	44.39	0.1933	0.03931	26.94	0.1117	0.0368
Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients																		
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)																	
City/Highway/Evap	44.39	0.1933	0.03931	26.94	0.1117		0.0368																	
Emission Control Device Comments	Test Request t18-0047-01; T3/L3 Evap Gasoline																							

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Manufacturer Test Vehicle Comments	2018MY F150 Super Cab 4x4		
Test #	JFMX10049672	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	05/09/2017	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	5337	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.1981	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1981	--

Manufacturer Test Comments

Linking test performed on previously waived calibration R05 for test group JFMXT05.03DN

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.1981	0.0000	0.198	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.1981	0.0000	0.198	0.500	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	JFMX10049673	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2017	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	5273	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.2212	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.2212	--

Manufacturer Test Comments

Linking test performed on previously waived calibration (R05) level for JFMXT05.03DN.

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.2212	0.0000	0.221	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2212	0.0000	0.221	0.500	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	JFMX10049674	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/28/2017	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	5284	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.001	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.001	--

Manufacturer Test Comments

Linking test performed on previously waived

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.001	0.000	0.00	0.05	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.001	0.000	0.00	0.05	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV																					
Emission Data Vehicle Information																								
Vehicle ID / Configuration	JFC1-5.0-J-029 / 2	Manufacturer Vehicle Configuration Number	2																					
Original Test Group Name	JFMXT05.03DP	Original Evaporative/Refueling Family	JFMXR0260NDV																					
Original Test Vehicle Model Year	2018																							
Vehicle Model																								
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 Super Cab 4X4																					
Leak Family Details																								
Leak Family Identifier	001	Leak Family Name	JFMXR0260NDV-001																					
Drive Sources and Fuel System Details																								
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Drive Source and Fuel#	Drive Source	Fuel																						
1	Combustion Engine	Ethanol, Gasoline																						
Hybrid Indicator	No																							
Multiple Fuel Storage	Fuels Stored Together	Multiple Fuel Combustion	Fuels Combusted Together																					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--																					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--																					
Off-board charge Capable Indicator	--																							
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03																					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles																							
Odometer Correction Units	Miles																							
Engine Code	JTFCAVNC21	Rated Horsepower	395																					
Displacement (liters)	5																							
Air Aspiration Method	Naturally Aspirated	Air Aspiration Method, if 'Other'																						
Number of Air Aspiration Devices	--	Air Aspiration Device Configuration	--																					
Charge Air Cooler Type	N/A	Drive Mode While Testing	2-Wheel Drive, Rear																					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)																					
Curb Weight (lbs)	5217	Equivalent Test Weight (pounds)	5500																					
GVWR (lbs)	7850	N/V Ratio	25.7																					
Axle Ratio	3.73																							
Transmission Type	Semi-Automatic	# of Transmission Gears	10																					
Transmission Lockup	Yes	Creeper Gear	No																					
Dynamometer Coefficients:																								
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Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients																		
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)		C (lbf/mph**2)																	
City/Highway/Evap	44.39	0.1933	0.03931	26.94	0.1117		0.0368																	
Emission Control Device Comments	Test Request t18-0006-01; T3B125 / ULEV125																							

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV									
Manufacturer Test Vehicle Comments	2018MY F150 Super Cab 4x4											
Test #	JFMX10049676	Test Procedure	24 - Federal fuel refueling test (ORVR)									
Exhaust Test # for this Evap Test	JFMX10048057	Test Fuel Type	59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only)									
Test Date	06/20/2017	Fuel	Gasoline									
Fuel Batch ID	--	Fuel Calibration Number	--									
Vehicle Class	N/A	DF Type	Mfr. Determined									
Verify Test Lab ID	APTL											
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)											
Test Start Odometer Reading	5422	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	--											
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No									
Test Results												
<table><tr><td>Test Result Name</td><td>Unrounded Test Result</td><td>Verify Calculated FE Equivalent Value (miles per gallon)</td></tr><tr><td>OMHCE (Organic material Hydrocarbon Equivalent)</td><td>0.008</td><td>--</td></tr><tr><td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td><td>0.008</td><td>--</td></tr></table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0.008	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.008	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0.008	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.008	--										
Manufacturer Test Comments	ORVR test											
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail				
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.008	0.003	0.01	0.20	Pass				
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.008	0.003	0.01	0.20	Pass				

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	JFMX10049769	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	04/06/2017	Fuel	Gasoline
Fuel Batch ID	--	Fuel Calibration Number	--
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
Test Start Odometer Reading	5111	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 86 (+/- 2 mph, +/- 1 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL (Total Hydrocarbon)	0.0107	--

Manufacturer Test Comments

BETP Testing is THC Only (not OMHCE/THCE)

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL	0.0107	0	0.011	0.020	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0107	0	0.011	0.020	Pass

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV						
Emission Data Vehicle Information									
Vehicle ID / Configuration	RFD1-3.5-J-850 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	RFMXT03.57AT	Original Evaporative/Refueling Family	RFMXR0260NDG						
Original Test Vehicle Model Year	2024								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	F150 RAPTOR 4WD						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	RFMXR0260NDG-001						
Drive Sources and Fuel System Details									
<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	RTFDBMNR01	Rated Horsepower	450						
Displacement (liters)	3.5								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	6023	Equivalent Test Weight (pounds)	6500						
GVWR (lbs)	7400	N/V Ratio	24.6						
Axle Ratio	4.1								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family		VFMXR0260NDV	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	50.64	0.4139	0.04767	23.06	0.3191	0.04551	25.4	
Cold CO	50.64	0.4139	0.04767	23.06	0.3191	0.04551	N/A	
US06	50.64	0.4139	0.04767	23.06	0.3191	0.04551	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		F150 RAPTOR (P702) 3.5L GTPFDI 4X4						

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	RFMX10082174	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	06/09/2023	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	48
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3936	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	774.49131	--
FE BAG 1 (Bag 1 Fuel Economy)	11.13547	11.13547
CO2 BAG 2 (Bag 2 Carbon Dioxide)	603.96328	--
FE BAG 2 (Bag 2 Fuel Economy)	14.33276	14.33276
CO2 BAG 3 (Bag 3 Carbon Dioxide)	579.32183	--
FE BAG 3 (Bag 3 Fuel Economy)	14.94799	14.94799
METHANE (CH4 - Methane)	0.01401	--
CO (Carbon Monoxide)	0.36086	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.7396	--
DT-EER (Drive Trace Energy Economy Rating)	0.0441	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4004	--
MFR FE (Manufacturer Fuel Economy)	13.7	13.7
NOX (Nitrogen Oxide)	0.036659	--
N2O (Nitrous Oxide)	0.01	--
HC-NM (Non-methane Hydrocarbon)	0.0881	--
NMOG (Non-methane organic gases)	0.09162	--
HC-TOTAL (Total Hydrocarbon)	0.10281	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	633.8776	--
Optional Carbon-Related Exhaust Emissions	637.1624	--

Certification Summary Information Report

Test Group		VFMXT03.57AT				Evaporative/Refueling Family				VFMXR0260NDV			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2						
		Carbon dioxide		632.5307			--						
Manufacturer Test Comments		SPORT MODE WITH START STOP ACTIVE											
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail	
Fed	50,000 miles	Federal Tier 4 Bin 50	CO	0.36	--	--	--	0	--	0.4	12.5	Pass	
Fed	120,000 miles	Federal Tier 4 Bin 50	HC-NM	0.09	--	--	--	0	--	0.1	0.4	Pass	
CA	50,000 miles	California LEV-III ULEV50	CO	0.36	--	--	--	--	--	0.4	12.5	Pass	

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	RFMX91005597	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/29/2023	Fuel	Gasoline
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4056	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	621.9162598	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	535.137146	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
CO2 BAG 3 (Bag 3 Carbon Dioxide)	521.0828247	--
FE BAG 3 (Bag 3 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0054263	--
CO (Carbon Monoxide)	0.1378368	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.2492224	--
DT-EER (Drive Trace Energy Economy Rating)	-0.126445	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.2801158	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0056335	--
N2O (Nitrous Oxide)	0.0013227	--
HC-NM (Non-methane Hydrocarbon)	0.0113492	--
NMOG (Non-methane organic gases)	0.0124655	--
PM (Particulate Matter)	0.0007157	--
HC-TOTAL (Total Hydrocarbon)	0.016566	--

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family				VFMXR0260NDV			
		Test Result Name		Unrounded Test Result			Verify Calculated CREE/OPT-CREE					
		Carbon-Related Exhaust Emissions		9999.9999999			999					
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		549.2374878			--					
Manufacturer Test Comments		None Unrounded Result for the following test results were modified by Verify: MFR FE, FE BAG 1, FE BAG 2, FE BAG 3										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 50	CO	0.14	--	--	--	0	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	CO-COMP	0.16	--	--	--	0	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 50	METHANE	0.0054	--	--	--	0	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	N2O	0.0013	--	--	--	0	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0125	--	1.1	--	0	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX	0.0181	--	--	--	--	--	0.018	0.050	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX-COMP	0.0174	--	--	--	0	--	0.017	0.060	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	PM	0.0007	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.14	--	--	--	--	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.16	--	--	--	--	--	0.2	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0125	--	1.1	--	--	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0181	--	--	--	--	--	0.018	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0174	--	--	--	--	--	0.017	0.060	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0056	--	--	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0007	--	--	--	--	--	0.001	0.003	Pass
NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.												

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV																																				
Test #	RFMX91005596	Test Procedure	3 - HWFE																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																				
Test Date	08/29/2023	Fuel	Gasoline																																				
Fuel Batch ID	28637	Fuel Calibration Number	1																																				
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	DF Type	Mfr. Determined																																				
Verify Test Lab ID	--																																						
E10 Evaporative Test Measurement Method	--																																						
Test Start Odometer Reading	4067	Odometer Units	M																																				
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--																																				
State of Charge Delta	--																																						
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes																																				
Test Results																																							
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Manufacturer Test Comments	None																																						

Certification Summary Information Report

Test Group		VFMXT03.57AT				Evaporative/Refueling Family				VFMXR0260NDV		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG	0.0074	--	1.03	--	0	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NMOG+NOX	0.0157	--	--	--	--	--	0.016	0.050	Pass
Fed	150,000 miles	Federal Tier 4 Bin 50	NOX	0.0083	--	--	--	0	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0074	--	1.03	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0157	--	--	--	--	--	0.016	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0083	--	--	--	--	--	0.008	999.999	Pass

NOTE: For Non-charge depleting tests, the Rounded Result for CREE/OPT-CREE Emission names are Verify-calculated values.

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	RFMX91005595	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	08/29/2023	Fuel	N/A
Fuel Batch ID	28637	Fuel Calibration Number	1
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	--		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4087	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	--		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	901.545166	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	561.78479	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0078544	--
CO (Carbon Monoxide)	0.2910527	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.9343482	--
DT-EER (Drive Trace Energy Economy Rating)	-2.0381536	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.9290042	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.0145577	--
N2O (Nitrous Oxide)	0.004389	--
HC-NM (Non-methane Hydrocarbon)	0.0157066	--
NMOG (Non-methane organic gases)	0.0161778	--
HC-TOTAL (Total Hydrocarbon)	0.0234511	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	637.0206909	--

Manufacturer Test Comments

None Unrounded Result for the following test results were modified by Verify: FE BAG 2, FE BAG 1, MFR FE

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Test #	RFMX10082154	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	06/07/2023	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	79
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	3922	Odometer Units	M
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--
State of Charge Delta	No		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No
Test Results			
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
METHANE (CH4 - Methane)	0.00403	--	
CO (Carbon Monoxide)	0.07884	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.0835	--	
DT-EER (Drive Trace Energy Economy Rating)	0.5509	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.323	--	
MFR FE (Manufacturer Fuel Economy)	13.1	13.1	
NOX (Nitrogen Oxide)	0.002635	--	
HC-NM (Non-methane Hydrocarbon)	0.0039	--	
NMOG (Non-methane organic gases)	0.00402	--	
HC-TOTAL (Total Hydrocarbon)	0.0081	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	667.15	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	666.72585	--	
Manufacturer Test Comments	SPORT MODE WITH START STOP ACTIVE		

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	79
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	06/21/2023
Fuel Batch Calibration Effective Date	06/21/2023	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.752
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17922
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.83	Weight Fraction CO2	--
Fuel Batch ID	28637	Fuel Calibration Number	1
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	08/26/2021
Fuel Batch Calibration Effective Date	08/26/2021	Fuel Batch Calibration Ineffective Date	--
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.75
Fuel Ethanol Volume Percent (%)	9.6	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17894
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.825	Weight Fraction CO2	--
Fuel Batch ID	375-B	Fuel Calibration Number	48
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	06/29/2023
Fuel Batch Calibration Effective Date	06/29/2023	Fuel Batch Calibration Ineffective Date	12/31/2100
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.745
Fuel Ethanol Volume Percent (%)	10.2	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17881
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.827	Weight Fraction CO2	--
Fuel Batch ID	373-B	Fuel Calibration Number	13
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	02/21/2017
Fuel Batch Calibration Effective Date	02/23/2017	Fuel Batch Calibration Ineffective Date	12/31/2100

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Carbon Weight Fraction NMHC	--		Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	--		Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--		Fuel Specific Gravity	0.747
Fuel Ethanol Volume Percent (%)	9.9		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17942
Fuel Net Heat of Combustion (E10) (MJ/kg)	--		Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.828		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family		VFMXR0260NDV		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Both		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		Federal Tier 4 Bin 50		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0	0.030
150,000 miles	N2O	--	--	--	--	--	--	0	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	0	0.060
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003
Cert Region		California + CAA Section 177 states			Cert/In-Use Code		Both		
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level		California LEV-III ULEV50		
Fuel		Gasoline			Test Procedure		Federal fuel 2-day exhaust (w/can load)		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.060
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family			VFMXR0260NDV	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 4 Bin 50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	12.5
120,000 miles	HC-NM	--	--	--	--	--	--	0	0.4
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 4 Bin 50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		VFMXT03.57AT			Evaporative/Refueling Family			VFMXR0260NDV	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	PM	--	--	--	--	--	--	--	0.006

Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			Federal Tier 4 Bin 50	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			Standard Level			California LEV-III ULEV50	
Fuel		Gasoline			Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	--	12.5

Evaporative/Refueling Standards

Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result		Std	Add DF	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--		0.20	0.003	

Certification Summary Information Report

Test Group		VFMXT03.57AT		Evaporative/Refueling Family		VFMXR0260NDV	
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.500	0.0000		
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL	--	0.020	0		
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0000		
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.05	0.000		

Certification Summary Information Report

Test Group		VFMXT03.57AT		Evaporative/Refueling Family		VFMXR0260NDV	
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.500	0.0000		
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0000		
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Both		Standard Level		California LEV-III Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	OMHCE	--	0.20	0.003		
Evaporative/Refueling Family		VFMXR0260NDV		Cert Region		Federal	
Cert/In-Use Code		Both		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000		

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family		VFMXR0260NDV
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family		VFMXR0260NDV
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VFMXT03.57AT	Evaporative/Refueling Family		VFMXR0260NDV
F	2-Wheel Drive, Front		A	All Wheel Drive	
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter		ICI	Independent Commercial Importer	
CSI	Certificate Summary Information		ORVR	Onboard Refueling Vapor Recovery	
DF	Deterioration Factor		SIL	Shift Indicator Light	
Evap	Evaporation, Evaporative		Trans	Transmission	



SECTION 8

Emission Testing Waiver Statements

Refer to Section 14.01.00.00 of the Common Section for
Statements of Compliance.



SECTION 8

Emission Testing Waiver Statements and Statements of Compliance

Statement of Compliance for test group VFMXT03.57AT

Ford Motor Company's test and production vehicles do not have defeat devices. All AECDs have been declared and described in the application. This test group has been designed and engineered to comply with 40 CFR 86.1809-12 (prohibition of defeat devices), satisfies 40 CFR 86.1844-01 (application submittal requirements for AECDs), and does not utilize alternate emissions control maps that are unique for testing purposes relative to on-road operation.

Is the transmission part of any AECD, for example, by receiving outputs from the ECU or providing inputs to the ECU, in any emission control strategy, for example, engine and/or catalyst warm-up?

If yes, please describe, including purpose, entry/exit conditions, actuations, and justifications.

Ford describes the transmission controls and potential interaction effects within the confidential AECD documentation found in section 16.05.00 of the common section area of the application submittals. This documentation covers the purpose, inputs, controlled actions, and justifications. For example, as referenced in the Drive Speed Control section of that document, the transmission can receive requests from the ECU to delay upshifts based on cold engine coolant temperature and/or low inferred catalyst temperature to assist with engine or catalyst warm-up.

Does the transmission behave and perform the same as, or differently than, while on road versus on a dynamometer?

Please explain any differences.

Ford does not attempt to discern whether the vehicle is operating on a dynamometer or on the road. However, there are certain conditions that can cause the transmission to operate differently based on the sensed inputs that may not be encountered during dynamometer testing. For example, when climbing grades or when towing, the transmission will make gear ratio adjustments to compensate against excessive engine lugging and reduced vehicle response. There can also be unique transmission scheduling in different customer selectable drive modes, such as EcoSelect, Sport, Snow, Rock Crawl, etc. The types of conditions that are anticipated to cause transmission adjustments are described in the confidential AECD descriptions located in 16.05.00 of the common section. For customer-selectable drive modes that could reasonably be driven over emission test cycles, Ford evaluates emission performance to assure that these modes meet applicable emission standards.

Special dynamometer test modes are required for certain vehicle technologies such as start/stop and HEVs to assure that fault conditions are not set while operating on two-wheel drive dynamometers. This allows the vehicles to behave normally, as they would on the road, rather than causing default/FMEM actions to occur due to significant wheel speed differences between the front and rear axles.

For additional statements of compliance, please refer to Section 14.01.00.00 of the Common Section.

Statement of Compliance

2-Day Diurnal Evaporative Certification Test (VFMXR0200GDG)

Based on engineering evaluation of development 2-Day diurnal evaporative emissions test data, the applicable test group complies with evaporative emission standard for the supplemental two- diurnal test sequence for as described in 40 CFR 86.1829-01.



SECTION 9

OBD-II System Description

For a description of the OBD System utilized for this Test Group, refer to Section 16.06.00.00 of the Common Section.



SECTION 11

AECD Description

For a description of the AECDs utilized in this Test Group,
refer to Section 16.00.05.00 of this application,
and 16.05 of the Common Section.



SECTION 12

Description of Vehicles Covered by Certificate and Testing Parameters

12.00.01.00 Common Family Parameters

Test Group: VFMXT03.57AT - Engine Config Param 3 - Expedition (91 RON Ratings)

Test Group Information : Expedition (91 RON Ratings)	
Vehicle/Engine Class	LDT4
Vehicle Fuel Category	Single Fuel
Operating Fuel 1	Gasoline
Operating Fuel 2	N/A
Engine Displacement (liters)	3.5
SAE net HP @ RPM (91 Ron)	400 @ 5200 RPM
SAE net torque ft-lb @ RPM	480 @ 3000 RPM
VECI - Emission Control System	
Air Aspiration Method	Turbocharged
Charge Air Cooler Type	Air
Exhaust Gas Recirculation (EGR)	Yes
Cooled EGR	Yes
Air injection Type (AIR)	Not Applicable
After-Treatment Type	Three-way catalyst
Fuel Metering System 1	Spark Ignition direct & ported injection
Fuel Metering System 2	N/A
Heated oxygen sensor (HO2S)	Yes
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO2S)	Yes
Feedback Sensor Configuration	2WR-HO2S, 2HO2S
Shift Schedules	See Common Section
EVAP Canister working Capacity	See Common Section
EVAP Canister Bed Volume	See Common Section
Fuel Tank Temperature Profile	See Common Section

12.00.01.00 Common Family Parameters

Test Group: VFMXT03.57AT - Engine Config Param 4 - Navigator / Expedition (High Output) (98 RON Ratings)

Test Group Information : Navigator / Expedition (High Output) (98 RON Ratings)	
Vehicle/Engine Class	LDT4
Vehicle Fuel Category	Single Fuel
Operating Fuel 1	Gasoline
Operating Fuel 2	N/A
Engine Displacement (liters)	3.5
SAE net HP @ RPM (98 Ron)	440 @ 6000 RPM
SAE net torque ft-lb @ RPM	510 @ 3000 RPM
VECI - Emission Control System	
Air Aspiration Method	Turbocharged
Charge Air Cooler Type	Air
Exhaust Gas Recirculation (EGR)	Yes
Cooled EGR	Yes
Air injection Type (AIR)	Not Applicable
After-Treatment Type	Three-way catalyst
Fuel Metering System 1	Spark Ignition direct & ported injection
Fuel Metering System 2	N/A
Heated oxygen sensor (HO2S)	Yes
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO2S)	Yes
Feedback Sensor Configuration	2WR-HO2S, 2HO2S
Shift Schedules	See Common Section
EVAP Canister working Capacity	See Common Section
EVAP Canister Bed Volume	See Common Section
Fuel Tank Temperature Profile	See Common Section

Exhaust Calibration	Evaporative Calibration	Application	Transmission	Leak Check	Vehicle
VTBDBMNA05	VFMXR0200GDG	50S (CAL)	A/T	0.020	Expedition 24.7g Fuel Tank
VTBDBMNB05	VFMXR0260NDV	50S (CAL)	A/T	0.020	Expedition 30.0g Fuel Tank
VTBDBMN305	VFMXR0200GDG	50S (CAL)	A/T	0.020	Expedition Platinum (HO) 24.7g Fuel Tank
VTBDBMN405	VFMXR0260NDV	50S (CAL)	A/T	0.020	Expedition Platinum (HO) 30.0g Fuel Tank
VTBDBMN505	VFMXR0200GDG	50S (CAL)	A/T	0.020	Expedition (HO) Tremor 24.7g Fuel Tank
VTBEBMN105	VFMXR0200GDG	50S (CAL)	A/T	0.020	Navigator (HO) 24.7g Fuel Tank
VTBEBMN205	VFMXR0260NDV	50S (CAL)	A/T	0.020	Navigator (HO) 30.0g Fuel Tank
VTBDBMNH05	VFMXR0200GDG	50S (CAL)	A/T	0.020	Expedition SSV 24.7g Fuel Tank
VTBDBMNJ05	VFMXR0260NDV	50S (CAL)	A/T	0.020	Expedition SSV 30.0g Fuel Tank

Reference Specifications

Spark Plug	Type: DYFS-12YPT Gap: 0.70-0.80 mm	
Ignition Timing °BTDC (No SPOUT connector)	PCM Controlled	
Idle RPM	PCM Controlled	
Target (Base) in Drive (A/C OFF/A/C ON)	575/575	
/C Idle in Drive at high ambients	650	Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies):

Potential Idle/Drive Speed Modifier	Function Utilized (Y/N)	Purpose
Low or high air charge temperature	N	Heater, A/C or engine cooling performance
Low catalyst temperature	Y	Achieve/maintain light off
Low engine coolant temperature	Y	Combustion stability
Low or high ambient temperature	Y	Heater or A/C performance
High transmission oil temperature	N	Ensure adequate fluid pressure
Low battery voltage	Y	Avoid stalling or no-start
High Alternator load	Y	Preserve battery life and avoid low voltage
High-speed fan operation	N	For engine and A/C condenser cooling
Extended neutral idle time	Y	Maintain catalyst temperature
Power steering pressure	N	Ensure adequate P/S assistance
High Altitude	N	Maintain air mass flow to avoid stalling
Alternate calibration	Y	Avoid spark plug fouling during plant/dealer handling
Drive Speed Control or Shift Delay	N	Increase engine speed to improve cabin heating or cooling
Heated Windshield	N	Maintain charging margin
ETC Failure	Y	Electronic Throttle Failure Min RPM
A/C Adder (50RPM)	Y	NVH Improvement
High auxiliary loads	N	Belt tensioner durability on BiSG and HV Motor cooling
Eco Idle Feature (Park/Neutral)	N	Raise idle speed to reduce fuel consumption and engine off time during Park/Neutral state

Sensed	Controlled
Test Group: VFMXT03.57AT	12.00.02.00
Issued: 02/16/2026	
Revised:	

Emission Component	Parameter	Parameter	Justification ¹	Calibration
ELECTRONICS – PCM ²				

FUEL

Fuel Injector (DI)	Signal from PCM	Fuel Flow	N/A	Static Flow Rate: 821 g/min
Fuel Injector (PFI)	Signal from PCN	Fuel Flow	N/A	Static Flow Rate: 128 g/min
Fuel Pressure (DI)	Signal from PCM	Fuel Pressure	N/A	250 bar (25 MPa)
Regulated Fuel Pressure (PFI)	Signal from PCM	Fuel Pressure	N/A	380-500 kpa
Fuel Pump (DI)	Signal from PCM	Fuel Flow	N/A	DI pump: Up to 1.3 cc/rev for 3 lobe, 5.5mm lift (theoretical delivery volume) 170 lph @ 12.0V/550kpa
Fuel Pump (PFI)	Signal from PCM	Fuel Flow	N/A	
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 68 mm

Fuel System Control Strategy²

Open loop enrichment for driver torque demand	Throttle Position or Pedal Position or Engine LOAD, and Engine RPM	Air-Fuel Ratio (LAMBSE)	Protection against damage or accident; provides additional power under extended torque demand	See Section 16.00.05.00 for air-fuel calibration (LAMBSE) in function "ol_lam_pwr_a_m" if accelerator pedal is greater than "FN311P" (90%) for "ol_tm_pwr_dly_a_m" seconds. Otherwise, open loop target, "OL_LAM_DES" is 1.00 (stoich). * and the entry conditions in function "FN311P".
Open Loop Delay Timers	Time and Gear	Delay open loop fuel	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration "FN1311P" and the maximum open-loop count-up time, "ol_tm_pwr_dly_a_m"
Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO, "CAT_TMR_THRES"

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
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Open Loop Enrichment EGO Protection	Inferred Oxygen Sensor Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred EGO temperature to trigger enrichment, "FEGO_MAX"
Open Loop Enrichment Engine/Exhaust Manifold Protection	Inferred Exhaust Manifold Flange Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred exhaust flange temperature, "FLN_MAX" or "FLN_MAX_LO" and "FLN_MAX_HI" and the time delay on FLN_MAX_LO, "FLN_TMR_THRES"
Open Loop Enrichment Following Deceleration Fuel Shut-Off (DFS0)	Injector state, inferred catalyst O ₂ stored, and CMS voltage	Air-Fuel Ratio (LAMBSE)	Substantially demonstrated on FTP	See Section 16.00.05.00 for air-fuel ratio utilized following fuel shut-off event, "LAM_REACT"

CRANKCASE

Crankcase Ventilation Oil Separator Assembly	Manifold Vacuum	Air Flow to Engine	Operates in FTP	EV#:297 2.55-3.75 SCFM @ 3" Hg 2.0-3.2 SCFM @ 8" Hg 0.85-1.65 SCFM @ 15" Hg
Crankcase Ventilation Oil Separator Assembly – Not Heated	Ambient Temp Battery Voltage	PCV Heating	Vehicle Safety	N/A

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
EGR Control Strategy				
EGR base table	Requested Torque, Percent Torque, Engine Speed, and Load	EGR Rate	Substantially demonstrated on FTP/SFTP. Base EGR optimized for fuel efficiency within constraints of combustion stability, drivability, emissions, and vacuum limitations	See Section 16.00.05.00 for the following tables: HDFX_EGR_MAXTOL_STP_0 (intake cam position = 0 degrees) HDFX_EGR_MAXTOL_STP_1 (intake cam position = 7 degrees) HDFX_EGR_MAXTOL_STP_2 (intake cam position = 14 degrees) HDFX_EGR_MAXTOL_STP_3 (intake cam position = 21 degrees) HDFX_EGR_MAXTOL_STP_4 (intake cam position = 28 degrees) HDFX_EGR_MAXTOL_STP_5 (intake cam position = 35 degrees)
EGR Limitation for Hot Intake Air Temperatures	Air Charge Temperature (ACT)	Multiplier on EGR Rate	Protection against damage or accident due to combustion stability degradation, detonation, and preignition.	See Section 16.00.05.00 for EGR_ACT_MAX
EGR Limitation for Cold Intake Air Temperatures	Air Charge Temperature (ACT)	Multiplier on EGR Rate	Protection against damage or accident due to icing in the intake and throttle areas.	See Section 16.00.05.00 for EGR_ACT_MIN
EGR Limitation/Delay for Cold Engine Temperatures	Engine Coolant Temperature (ECT)	Multiplier on EGR Rate	Substantially demonstrated on FTP (ambient and 20F). Required to ensure proper combustion stability.	See Section 16.00.05.00 for function HDFX_EGR_ECT_MUL_0 (Note: other functions are used based on intake cam timing position, but all functions calibrated the same.)

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
VCT Control Strategy				
Cam timing based on requested torque and percent torque	Requested Torque, Percent Torque, Engine Speed, and Load	Cam Phase Timing	VCT optimized for fuel efficiency within constraints of combustion stability, driveability, emissions, and vacuum limitations	See Section 16.00.05.00 for "hdfcfg_ix_fe_v" Best FE mapped points in combination with "FNHDFX_BEST_FE_DIST" (eng_spd, load) and "FNHDFX_BEST_DRIVE_DIST" (eng_spd, pct_load) distances.
Cam Timing Limitation for Combustion Stability	Requested Torque and Engine Speed	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Actuator Limitation for Oil Temperature	Oil Temperature; or Time-since-start and ECT-at-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "FNHDFX_FNEOT_ADV_INT" and "FNHDFX_FNEOT_EXH"
Cam Actuator Limitation for start-up	Engine Coolant Temp. at start and time-since-start	Cam Phase Timing	Protection against damage or accident	See Section 16.00.05.00 for "fnvct_enable_delay" and "FNHDFX_VCT_COMB_STAB_EXH" and "FNHDFX_VCT_COMB_STAB_INT"
Cam Retard Limitation under Hi Torque Demand n	Engine Speed and Requested Torque	Cam Phase Timing or Throttle Position	Protection against damage or accident under high torque demand	See Section 16.00.05.00 for Contained within the Best FE, Best Drv noted above and the Optimal Performance "FN_HDFX_OP_IVO" and "FN_HDFX_OP_EVC" calibrations.
Cam Actuator Limitation for ACT Effects	Air Charge Temperature	Cam Phase Timing	Protection against damage or accident by maintaining combustion stability	See Section 16.00.05.00 for "FNHDFX_VCTLIM_EXH"

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
ENGINE COOLING				
Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: 87.8° C

2027 MY Exhaust Emissions Parts List
Test Group: VFMXT03.57AT

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
EXPEDITION 4WD	Initial	VTBDBMN30000	VTBDBMN305	PVL1A-12A650-AB	02/09/2026
EXPEDITION 4WD	Initial	VTBDBMN40000	VTBDBMN405	PVL1A-12A650-CB	02/09/2026
EXPEDITION 4WD	Initial	VTBDBMN50000	VTBDBMN505	PVL1A-12A650-BB	02/09/2026
EXPEDITION 2WD, EXPEDITION 4WD	Initial	VTBDBMNA0000	VTBDBMNA05	PVL1A-12A650-JB	02/09/2026
EXPEDITION 2WD, EXPEDITION 4WD	Initial	VTBDBMNB0000	VTBDBMNB05	PVL1A-12A650-KB	02/09/2026
EXPEDITION 4WD	Initial	VTBDBMNH0000	VTBDBMNH05	PVL1A-12A650-LB	02/09/2026
EXPEDITION 4WD	Initial	VTBDBMNJ0000	VTBDBMNJ05	PVL1A-12A650-MB	02/09/2026
NAVIGATOR 4WD	Initial	VTBEBMN10000	VTBEBMN105	PVL7A-12A650-AB	02/09/2026
NAVIGATOR 4WD	Initial	VTBEBMN20000	VTBEBMN205	PVL7A-12A650-BB	02/09/2026

2027 TEST VEHICLE REQUIREMENTS

	<u>FUL Exhaust Data Vehicle</u>	<u>Evaporative Data Vehicle (24 Gal)</u>	<u>CAP 2000 Evap. Data Vehicle (30.0 gal)</u>
Test Group	RFMXT03.57AT	PFMXT02.73JK	KFMXT05.03DN
EVAP Emission Family	RFMXR0260NDG	PFMXR0200GDG	KFMXR0260NDV
Displacement Liters	3.5L GTPFDI	2.7L GTPFDI	5.0L GTPFDI
Engine Code	RTFDBMNR01	JTFCWQNB05	JTFCAVNC06
Fuel Tank Code	F4 (37.1 Gal)	F2 (23.9 Gal)	F4 (37.1 gal)
Exhaust Control System	DFI, SFI, 2WR-HO2S, EGR, EGRC 2TWC,2HO2S,2TC,CAC	DFI, SFI, 2WR-HO2S, 2TWC,2HO2S,2TC,CAC	2TWC, 2HO2S, 2WR-HO2S, DFI, SFI F150 4X4
Model	F150 Raptor 4X4	F150 4X4	
Equivalent Test Weight	6500 lbs	5250 lbs	
Curb Weight	6023 lbs	4903 lbs	5500 lbs
GVWR	7400 lbs	7000 lbs	5217 lbs 7850 lbs
THP/DPA	25.4	19.5	
F1	50.64	41.31	20.3
F2	0.4139	0.1955	44.39
F3	0.04767	0.03765	0.1933 0.03931
Axle Ratio	4.10	3.73	3.73
N/V Ratio (RPM/MPH)	24.6	25.7	
Tires	LT315/80R17	LT275/65R18	25.7
Vehicle ID No.	RFD1-3.5-J-850	JFC1-2.7-032	JFC1-5.0-J-029
Configuration Number	00	00	0
Model Year	2024 MY	2018 MY	2018

Test Group: VFMXT03.57AT
Issued: 02/17/2026
Revised:

2026MY R10 to 2027MY R05 Changes:

27MY R05 release to support PP builds. The strategy and calibration changes contained herein do not affect tailpipe/evaporative emissions or fuel economy. OBD SELF-CERT STILL APPLIES.

ENGINE CONTROL STRATEGY (PCM / ECM) CHANGES:

PXNR3 to PXNT3

general bug fixes; FbP compares are attached in conclusions

- fix for GPF diagnostic reporting
- GSM lock delete implementation
- CKCPM improvements

ENGINE CALIBRATION CHANGES:

- The calibration for the turbo actuator change has been updated/optimized for motor protect thresholds, gear ratio, motor inertia, fine motion control and max e-wastegate (eWG) travel.
- Fixing spark accuracy in EGR regions. Updates to octane learning when EGR is active to improve KOM precision and BDL spark accuracy. No impact to any regions beyond 0.8 Load. Changes have also been applied to 27MY P702 3.5L GTDI.
- Set max reset time after last button press to 0 for cabin sanitization to comply with APR (non functional, not used on this program)
- pxcota_b_cma_mode_s_ = 0 is now required for R00 and later Cal releases to support CAN Message Authentication (CMA) alignment with RQT-001403-728066 to Disable CMA Development Mode.

ENGINE OBD CHANGES:

- Finalized OBD calibration for R05.

TRANSMISSION / DRIVELINE CALIBRATION CHANGES:

Transmission/Driveline Calibration Changes–

Base Transmission–

- Added transmission parameters associated with the GSM lock delete implementation.
- Added transmission parameters associated with enabling neutral hold entry while in dyno mode.

Electrical Functional/TEAM–

- Added Transmission OBD non-modifiable calibration parameter to support TEAM decoder macro to compare team data with team decoder.
- Updated TEAM Event 284 filter threshold to disable it ability to set in all programs. Data analysis indicated that this TEAM event was setting due to normal torque converter operation. A second level higher value TEAM event indicating a real TCC issue remains active.
- Updated TEAM Event 710 filter threshold to disable it ability to set in all programs. This TEAM event does not provide any added value to root cause investigation into ISSB issues. Other TEAM events related to ISSB function will remain active.

TRANSMISSION OBD CHANGES:

- P0C2C (Electric Transmission Fluid Pump Control Module Feedback Signal Range/Performance) - MIL - Updated Transmission OBD ATSSD bitmask to enable running of ePump fault detection logic during KOEO self-test. (3 to 2)
- P1706_00 (High Vehicle Speed Observed in Park) – P179D_00 (Neutral Mode Exceeded Speed/Distance Conditions) – non-MIL – Updated various Transmission OBD speed, distance and event thresholds, related to detecting improper towing and park pawl ratcheting, to align with park systems test data.
- P215C (Output Shaft Speed / Wheel Speed Correlation) - non-MIL - Updated Transmission OBD positive and negative wheel speed rate of change thresholds to add robustness against normal operation wheel rock erroneously triggering fault detection logic.
- P215C (Output Shaft Speed / Wheel Speed Correlation) - non-MIL - Updated Transmission OBD maximum axle ratio used in OSS-VSPD ration comparison logic.

HARDWARE CHANGES:

- The turbo assembly has been updated with a similar eWG actuator from a different supplier (from Bosch to Hella). Except for the updated actuator, the turbo assembly is the same as previous model years.
- GSM (Gear shift module) lock delete TVM action.

Test Group: VFMXT03.57AV

Issued: 02/12/2026

Revised:

Vehicle Description Report

Test Group: VFMXT03.57AT

ID Number	5300571	5300582	5300616	5300617	5300618	5300570	5300581	5300592
Displacement	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Cert Code	VTBDBMNA0000	VTBDBMBN0000	VTBDBMN30000	VTBDBMN40000	VTBDBMN50000	VTBDBMNA0000	VTBDBMBN0000	VTBDBMNH0000
Fuel Tank(s)	US	UL	US	UL	US	US	UL	US
Carline	EXPEDITION 2WD	EXPEDITION 2WD	EXPEDITION 4WD	EXPEDITION 4WD	EXPEDITION 4WD	EXPEDITION 4WD	EXPEDITION 4WD	EXPEDITION 4WD
Wheel Configuration	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Body Style	Utility	Utility Extended	Utility	Utility Extended	Utility	Utility	Utility Extended	Utility
Wheelbase	122.5	131.6	122.5	131.6	122.5	122.5	131.6	122.5
Transcode Combo	EUA	EUA	EUA	EUA	EUA	EUA	EUA	EUA
Curb Weight	5530	5647	5923	6047	5908	5826	5952	5826
ETW	6000	6000	6000	6500	6000	6000	6500	6000
Loaded Weight LVW	5830	5947	6223	6347	6208	6126	6252	6126
ALVW-ETW	6500	6500	6500	7000	7000	6500	7000	6500
Adj. Loaded Weight	6453	6573	6736	6884	6779	6725	6851	6725
GVWR	7375	7500	7550	7720	7650	7625	7750	7625
GCWR	12000	12500	15600	15600	15600	15900	15600	15900
Min Axle Ratio	3.31	3.31	3.73	3.73	3.73	3.73	3.73	3.73
Max Axle Ratio	3.31	3.31	3.73	3.73	3.73	3.73	3.73	3.73
Min N/V Ratio	22.2	22.2	25.0	25.0	24.9	25.0	25.0	25.3
Max N/V Ratio	22.4	22.4	25.0	25.0	24.9	25.3	25.3	25.3
Emission Vehicle Class	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	P265/70R18 - 22.4	P265/70R18 - 22.4	P285/40R24 - 25	P285/40R24 - 25	P275/70R18 - 24.9	P265/70R18 - 25.3	P265/70R18 - 25.3	P265/70R18 - 25.3
Max Tire Size	P275/60R20 - 22.2	P275/60R20 - 22.2	P285/40R24 - 25	P285/40R24 - 25	P275/70R18 - 24.9	P275/60R20 - 25	P275/60R20 - 25	P265/70R18 - 25.3
Alt Tire 1	P275/50R22 - 22.3	P275/50R22 - 22.3				P275/50R22 - 25.1	P275/50R22 - 25.1	
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2873	2907	3002	3040	2967	2942	2981	2942
DAW Empty Tank	2766	2780	2894	2914	2859	2834	2855	2834

Vehicle Description Report

Test Group: VFMXT03.57AT

ID Number	5300593
Displacement	3.5
Cert Code	VTBDBMNJ0000
Fuel Tank(s)	UL
Carline	EXPEDITION 4WD
Wheel Configuration	Standard
Body Style	Utility Extended
Wheelbase	131.6
Transcode Combo	EUA
Curb Weight	5952
ETW	6500
Loaded Weight LVW	6252
ALVW-ETW	7000
Adj. Loaded Weight	6851
GVWR	7750
GCWR	15600
Min Axle Ratio	3.73
Max Axle Ratio	3.73
Min N/V Ratio	25.3
Max N/V Ratio	25.3
Emission Vehicle Class	LDT4
Drive Code	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic
Calibration Application	50ST
Min Tire Size	P265/70R18 - 25.3
Max Tire Size	P265/70R18 - 25.3
Alt Tire 1	
Alt Tire 2	
Alt Tire 3	
Alt Tire 4	
Alt Tire 5	
Alt Tire 6	
Alt Tire 7	
DAW Full Tank	2981
DAW Empty Tank	2855

Vehicle Description Report

Test Group: VFMXT03.57AT

ID Number	5300561	5300563	5300566	5300564	5300560	5300558	5300567	5300565
Displacement	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Cert Code	VTBEBMN10000	VTBEBMN10000	VTBEBMN20000	VTBEBMN20000	VTBEBMN10000	VTBEBMN10000	VTBEBMN20000	VTBEBMN20000
Fuel Tank(s)	US	US	UL	UL	US	US	UL	UL
Carline	NAVIGATOR 2WD	NAVIGATOR 2WD	NAVIGATOR 2WD	NAVIGATOR 2WD	NAVIGATOR 4WD	NAVIGATOR 4WD	NAVIGATOR 4WD	NAVIGATOR 4WD
Wheel Configuration	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Body Style	Utility	Utility	Utility Extended	Utility Extended	Utility	Utility	Utility Extended	Utility Extended
Wheelbase	122.5	122.5	131.6	131.6	122.5	122.5	131.6	131.6
Transcode Combo	EUA	EUA	EUA	EUA	EUA	EUA	EUA	EUA
Curb Weight	5705	5759	5823	5876	5931	5985	6046	6100
ETW	6000	6000	6000	6000	6000	6500	6500	6500
Loaded Weight LVW	6005	6059	6123	6176	6231	6285	6346	6400
ALVW-ETW	6500	6500	7000	6500	7000	7000	7000	7000
Adj. Loaded Weight	6603	6529	6772	6708	6825	6767	6923	6910
GVWR	7500	7300	7720	7540	7720	7550	7800	7720
GCWR	12700	12700	13300	13300	12700	12700	13300	13300
Min Axle Ratio	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
Max Axle Ratio	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
Min N/V Ratio	25.1	25.0	25.1	25.0	25.1	25.0	25.1	25.0
Max N/V Ratio	25.1	25.0	25.1	25.0	25.1	25.0	25.1	25.0
Emission Vehicle Class	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4
Drive Code	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	2-Wheel Drive, Rear	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	P275/50R22 - 25.1	P285/40R24 - 25	P275/50R22 - 25.1	P285/40R24 - 25	P275/50R22 - 25.1	P285/40R24 - 25	P275/50R22 - 25.1	P285/40R24 - 25
Max Tire Size	P275/50R22 - 25.1	P285/40R24 - 25	P275/50R22 - 25.1	P285/40R24 - 25	P275/50R22 - 25.1	P285/40R24 - 25	P275/50R22 - 25.1	P285/40R24 - 25
Alt Tire 1								
Alt Tire 2								
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2967	2994	2986	3012	3004	3031	3024	3051
DAW Empty Tank	2860	2887	2860	2887	2897	2924	2898	2926



SECTION 14

Request for Certification

REF NO:	306183
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Note: Approved forms can be sent to NAPAP@ford.com for processing

EPA_MVECP_v1

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 01/08/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

FMX

Manufacturer Name *

FORD MOTOR COMPANY

Contact Name *

Tina Oliver

Contact Email Address *

toliver@ford.com

Contact Phone *

313-323-8938

Calendar Year complete application submitted
to EPA *

2026

PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2026, through December 31, 2026. The applicable fee is determined by the

Calendar year in which the complete certification application is received, not the model year.

Engine Family / Evaporative Family / Test Group *

VFMXT03.57AT

Certificate Request Type (Industry Sector Code)

Certificate Request Type *

- ☒ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (Federal) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (Federal) (E, H)
- ☐ On-Highway LD ICI, MDPV ICI, HDV ICI (A, B, D, J, T, V)
- ☐ On-Highway Motorcycle (C)
- ☐ On-Highway HDV Evap (F)
- ☐ On-Highway LDV, LTD, MDVPV, HDV Chassis Cert (California-Only) (A, B, D, J, T, V)
- ☐ On-Highway HDE Dyno Cert (California-Only) (E, H)
- ☐ Nonroad CI (L)
- ☐ Nonroad SI (B, S)
- ☐ Locomotive (G, K)
- ☐ All Nonroad Recreational, excluding Marine engines (X, Y)
- ☐ All Marine (Including IMO) (M, N, W)
- ☐ Component Certification for Evaporative Emissions (P)

IMO Name (Required for dual US/IMO Marine Only)

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? *

No

Payment Information

Amount Owed

\$32,317.00

Payment Type *

Offline ACH

Comments

Nabil Hachem 3.5L Expedition Navigator

27UJC12
77261819382

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

The public reporting and recordkeeping burden for this collection of information is estimated to average 12 minutes per response. Send comments on the Agency's need for this information, the accuracy of the provided burden estimates, and any suggested methods for minimizing respondent burden, including through the use of automated collection techniques to the Director, Collection Strategies Division, U.S. Environmental Protection Agency (2822T), 1200 Pennsylvania Ave., NW, Washington, D.C. 20460. Include the OMB control number in any correspondence. Do not send the completed forms to this address.

The content of this document may contain Sensitive But Unclassified (SBU) data and/or Controlled Unclassified Information (CUI).



**Vehicle Homologation & Compliance
Environmental & Safety Compliance**

**Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W-200
Allen Park, Michigan 48101-2053**

April 30, 2026

Ms. Hannah Frame
Certification Division
Mobile Source Pollution Control
U. S. Environmental Protection Agency
2000 Traverwood Drive
Ann Arbor, Michigan 48105

Dear Ms. Frame:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2027 model year Gasoline powered light duty truck (LDT) contained in Ford's 50 State test group VFMXT03.57AT and evaporative emission families VFMXR0260NDV and VFMXR0200GDG. Federal Tier 3 E10 Regular Gasoline fuels were used for exhaust emission tests. Tier 3 E10 Regular Gasoline was used for evaporative emission tests.

The EPA Interim Tier 4 certification and in-use exhaust emission standards applicable to this test group are:

Certification and In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOX	CO	N2O	PM	HCHO	CH4
Interim Tier 4 Bin 50	150K	0.050	1.7	0.010	0.003	0.004	0.030

This test group also meets the Cold NMHC Family Emission Limit (FEL) of 0.4 gm/mi as part of the compliance plan to meet the corporate fleet average cold NMHC Federal standards. In addition, the SFTP NMOG + NOX Composite and Highway standard value is 0.060 gm/mi at 150K. For CO Composite the standard value is 4.2 gm/mi at 150K. The PM standard value for US06 test is 0.006 gm/mi at 150K.

The EPA Tier 3 certification and in-use evaporative emission standards applicable to this test group are:

Tier 3	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	Bleed Test HC Total
Evaporative Standards	150k	0.500 grams per test	0.500 grams per test	0.05 grams/mile	0.20 grams/gallon	0.020 grams / test
VFMXR0200GDG						
VFMXR0260NDV						

The Fuel Spitback standard for this test group is 1.0 gram/test.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14), including the provisions of 40 CFR Parts 85, 86 and 600, Ford requests that a Certificate of Conformity be issued for the LDT test group listed in this Application for Certification.

Please contact Mark Pietron at 313-805-7139 or mpietron@ford.com, if you have any questions regarding this submission.

Sincerely

DocuSigned by:

Lawrence H. Merritt, Jr.

DF6ED4749EAC46B

Lawrence Merritt

Manager, Emissions Certification
Homologation, & Compliance



**Emissions Certification,
Homologation, & Compliance**

**Allen Park Test Laboratory
1500 Enterprise Drive, Suite 3W200
Allen Park, Michigan 48101- 2053**

March 4, 2026

Ms. Robin U. Lang, Chief
Emissions Compliance, Automotive Regulations and Science Division
Air Resources Board
4001 Iowa Ave.
Riverside, CA 92507

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits its Part I Application for Certification for 2027 model year gasoline powered light-duty trucks (LDTs) contained in Ford's 50 states test group VFMXT03.57AT and evaporative emission families VFMXR0260NDV and VFMXR0200GDG. Tier 3 E10 regular fuel was used for Evaporative emission testing. This test group is being certified to the federal T3B50 standards and is counted as LEVIII / ULEV50 under the California standards.

This application aligns with CARB's Manufacturers Advisory Correspondence (MAC) ECCD-2025-8 alternate pathway (1) described on page 2 as follows:

- (1) An approved application for CARB certification to the vehicle and engine emission regulations that immediately preceded those covered by the waivers that were targeted by the congressional resolutions.

Ford intends submittal of this certification to facilitate CARB's review in order to ensure timely certification of Ford's vehicles as may be needed in accordance with applicable requirements. Ford is reserving its rights with regard to determining what requirements apply and which requirements can be enforced by CARB.

The FTP certification and in-use standards applicable to this test group for vehicles offered in California are as follows:

Certification & In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOx	CO	HCHO	PM
LEV III ULEV 50	150K	0.050	1.7	0.004	0.003

This test group also meets the SFTP NMOG+NOx Family Emission Limit (FEL) of 0.060 g/mi and CO composite limit of 4.2 g/mi as part of compliance plan to meet corporate fleet average SFTP standards.

The certification and in-use evaporative emission standards applicable to this test group are:

Certification and In-Use Evaporative Standards	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	Canister Bleed Test
L3e	150K	0.500 grams per test (LDT)	0.500 grams per test (LDT)	0.05 gram/mile	0.20 gram/gallon	0.020 g/test

The Fuel Spitback standard is 1.0 gram per test for this test group.

Based on Ford Motor Company's good engineering judgment, all the vehicles described in this Application are designed to comply with the applicable intermediate and full useful life standards, as described above.

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. This Application has also been prepared in accordance with the California Air Resources Board, Final Regulation Order, Amendments to Sections 1960.1, 1960.5, 1961, and 1962 Title 13, California Code of Regulations (As Amended August 4, 2005). Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85, 86 and 600, Ford requests that an Executive Order be issued for the LDT test group listed in this Application for Certification.

Additionally, Ford Motor Company is requesting the Air Resources Board approve the following Partial Carryover Application for VFMXT03.57AT based on Partial Carryover data from TFMXT03.57AT and Executive Order number A-010-2647. By signing this letter, Ford Motor Company is certifying that this model year's application package:

1. Includes no change of the emission standards/FELs, regulation requirements, emission characteristics of the engine, or test procedures requirements.
2. The 2027 application package differs from the 2026 application package only by:

- ☒ Model year
- ☒ Test Group/Engine/Vehicle/Evaporative family name (typically the first character)
- ☐ Manufacturer contact information
- ☒ Projected sales data
- ☐ Model information (may only add models if the certification emission levels are not changed)
- ☒ Part numbers (durable to full useful life and no impact on certification emission levels)
- ☐ Equipment types (i.e. crane, dozer, generator, etc.)

3. All other information in the 2027 application package is identical to the 2026 application package (incorporates all approved running changes to date).
4. The application package is complete and named correctly using the appropriate Document Management System (DMS) file and workflow naming conventions and submitted using the correct workflow process.

Please contact Mark Pietron at 313-805-7139, mpietron@ford.com, if you have any questions regarding this submission.

Sincerely

DocuSigned by:

Jeff Glodich

5DAF4A8B9BF6498...

Jeffrey Glodich

Manager, Emissions Certification
Homologation, & Compliance

Cc: R. Uyehara
M. Desai



SECTION 15

Other Information

15.00.00.00



SECTION 16

Confidential Information



SECTION 17

California ARB Requirements



SECTION 17

California ARB Requirements



SECTION 17

California ARB Requirements

VFMXT03.57AT

FoMoCo	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION
Conforms to regulations: 2027 MY	
U.S. EPA: Interim T4B50 LDT4	
OBD:CA OBD II Fuel: Gasoline	
California: ULEV50 LDT	
OBD:CA OBD II Fuel: Gasoline	
TWC/DFI/SFI/WR-HO2S/HO2S/TC/CAC/EGR/EGRC	
No adjustments needed.	
3.5L-Group: VFMXT03.57AT Evap: VFMXR0200GDG	
▽ VW7E-9C485- M D B 	

FoMoCo	Ford Motor Company VEHICLE EMISSION CONTROL INFORMATION
Conforms to regulations: 2027 MY	
U.S. EPA: Interim T4B50 LDT4	
OBD:CA OBD II Fuel: Gasoline	
California: ULEV50 LDT	
OBD:CA OBD II Fuel: Gasoline	
TWC/DFI/SFI/WR-HO2S/HO2S/TC/CAC/EGR/EGRC	
No adjustments needed.	
3.5L-Group: VFMXT03.57AT Evap: VFMXR0260NDV	
▽ VW7E-9C485- M S X 	



SECTION 18

Revisions

18.00.00.00

Application for Certification

Part 2