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
Invoice Date	Jan 21, 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

Payment Row Number	Product Description or File Name	Model Year/Calendar Year	Unique Application Identifier: Test Group, Engine Family, Trailer Family, Vehicle Family, ZEP Family, if applicable (ID listed in payment row must match the unique identifier given to the certification application)	Category Type	Fee Type	Amount
1	CBI_VFMXT03.0TPC_APPIPT	Model Year 2027	VFMXT03.0TPC	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
2	CBI_VFMXT03.57AV_APPIPT	Model Year 2027	VFMXT03.57AV	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
3	CBI_VFMXT03.54HT_APPIPT	Model Year 2027	VFMXT03.54HT	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
4	OPCARRYOVER_27_VFMXT	Model Year 2027	VFMXT03.57AT	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00
5	CBI_VFMXT02.34K2_APPIPT	Model Year 2027	VFMXT02.34K2	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
6	OPCARRYOVER_27_VFMXT	Model Year 2027	VFMXT03.0JP1	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00
7	CBI_VFMXT02.02JF_APPIPT	Model Year 2027	VFMXT02.02JF	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
8	CBI_VFMXT02.34K4_APPIPT	Model Year 2027	VFMXT02.34K4	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
9	CBI_VFMXT03.33F1_APPIPT	Model Year 2027	VFMXT03.33F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00

10	CBI_VFMXT03.51F2_APPIPT	Model Year 2027	VFMXT03.51F2	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
11	CBI_VFMXT03.01HS_APPIPT	Model Year 2027	VFMXT03.01HS	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
12	CBI_VFMXT03.57A7_APPIPT	Model Year 2027	VFMXT03.57A7	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
13	CBI_VFMXT03.57A8_APPIPT	Model Year 2027	VFMXT03.57A8	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
14	CBI_VFMXT03.01EW_APPIP	Model Year 2027	VFMXT03.01EW	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
15	CBI_VFMXT03.54JK_APPIPT	Model Year 2027	VFMXT03.54JK	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
16	CBI_VFMXT05.03DP_APPIPT	Model Year 2027	VFMXT05.03DP	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
17	CBI_VFMXT05.2AHS_APPIP	Model Year 2027	VFMXT05.2AHS	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
18	CBI_VFMXT03.51F1_APPIPT	Model Year 2027	VFMXT03.51F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
19	CBI_VFMXT01.52X4_APPIPT	Model Year 2027	VFMXT01.52X4	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
20	CBI_VFMXT01.52X2_APPIPT	Model Year 2027	VFMXT01.52X2	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
21	CBI_VFMXT02.02Y3_APPIPT	Model Year 2027	VFMXT02.02Y3	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
22	CBI_VFMXT02.02Y5_APPIPT	Model Year 2027	VFMXT02.02Y5	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
23	CBI_VFMXT02.54F1_APPIPT	Model Year 2027	VFMXT02.54F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
24	CBI_VFMXV00.0B4A_APPIPT	Model Year 2027	VFMXV00.0B4A	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	$ 12,577.00
25	CBI_VFMXV00.0B4R_APPIPT	Model Year 2027	VFMXV00.0B4R	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	$ 12,577.00
26	CBI_VFMXV05.0VKN_APPIP	Model Year 2027	VFMXV05.0VKN	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
27	OPCARRYOVER_27_VFMXV	Model Year 2027	VFMXV05.2VEY	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00
28	CBI_VFMXV02.3VJG_APPIPT	Model Year 2027	VFMXV02.3VJG	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
29	CBI_VFMXV02.3VJY_APPIPT	Model Year 2027	VFMXV02.3VJY	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
30	CBI_VFMXT03.03V5_APPIPT	Model Year 2027	VFMXT03.03V5	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
31	CBI_VFMXT03.03V6_APPIPT	Model Year 2027	VFMXT03.03V6	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
32	OPCARRYOVER_27_VFMXT	Model Year 2027	VFMXT02.31EN	Light-duty vehicle test group and	Partial Carry-Over	$ 25,155.00

				medium-duty vehicle test group		
33	CBI_VFMXT03.03V9_APPIPT	Model Year 2027	VFMXT03.03V9	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
34	CBI_VFMXT03.03V8_APPIPT	Model Year 2027	VFMXT03.03V8	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
35	CBI_VFMXT03.03V7_APPIPT	Model Year 2027	VFMXT03.03V7	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
36	OPCARRYOVER_27_VFMXT	Model Year 2027	VFMXT02.31EM	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00
37	27_VFMXV05.2GTD_APPIPT	Model Year 2027	VFMXV05.2GTD	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
38	CBI_VFMXV00.0G4A_APPIPT	Model Year 2027	VFMXV00.0G4A	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	$ 12,577.00
39	CBI_VFMXT02.36HH_APPIPT	Model Year 2027	VFMXT02.36HH	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
40	OPCARRYOVER_27_VFMXT	Model Year 2027	VFMXT02.36HG	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	$ 25,155.00
41	CBI_VFMXT03.33U3_APPIPT	Model Year 2027	VFMXT03.33U3	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
42	CBI_VFMXT02.34K5_APPIPT	Model Year 2027	VFMXT02.34K5	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
43	CBI_VFMXT02.34K3_APPIPT	Model Year 2027	VFMXT02.34K3	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
44	CBI_VFMXV05.4VBB_APPIPT	Model Year 2027	VFMXV05.4VBB	Light-duty vehicle test group and medium-duty vehicle test group	Base	$ 50,309.00
45	CBI_VFMXV00.0PLA_APPIPT	Model Year 2027	VFMXV00.0PLA	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	$ 12,577.00
46	CBI_VFMXV00.0PLR_APPIPT	Model Year 2027	VFMXV00.0PLR	Light-duty vehicle test group and medium-duty vehicle test group	Zero-Emission	$ 12,577.00

Total Due	$ 1,974,630.00

I, [redacted] _, attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

Application for Certification

Part 1

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 - Tier 3 Bin 50 Federal Evap - Tier 3 FTP CH_4 - 0.030 g/mi FTP N_2O - 0.010 g/mi FTP PM - 0.003 g/mi COLD CO - Cold NMHC - 0.4 g/mi SFTP NMOG+NOx - 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+NOx - 0.060 g/mi

Vehicles Tested

Exhaust Emission Vehicle:	
RFD1-3.5-J-850/Config 0	
FTP (E10) TN	RFMX91005597
HWY (E10) TN	RFMX91005596
US06 (E10) TN	RFMX91005595
SC03 (E10) TN	RFMX10082154
Cold CO (E10) TN	RFMX10082174

Evaporative Emission Vehicle:	
jfc1-5.0-J-029/Config 0 (VFMXR0260NDV)	
2Day TN	JFMX10049672
3Day TN	JFMX10049673
BETP	JFMX10049769
Linking TN	JFMX10048057
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

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')

Emission Component	Sensed Parameter	Controlled Parameter	Justification	Calibration Specification
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	

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')

Emission Component	Sensed Parameter	Controlled Parameter	Justification	Calibration Specification
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**	02/17/2026 10:57:02 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	--	**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	2 - Lincoln	115 - NAVIGATOR 2WD	California + CAA Section 177 states	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	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	2 - Lincoln	115 - NAVIGATOR 2WD	Federal	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	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	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**	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

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 eqipped	**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	**Creeper Gear**	No

Dynamometer Coefficients:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	41.31	0.1955	0.03765	20.655	0.0391	0.03765	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

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

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

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

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

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 eqipped	**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	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0200GDG

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
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 3 Bin 50	CO	0.36	--	--	--	0	--	0.4	12.5	Pass
Fed	120,000 miles	Federal Tier 3 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	9999.9999999	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 3 Bin 50	CO	0.14	--	--	--	0	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.16	--	--	--	0	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0054	--	--	--	0	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0013	--	--	--	0	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0125	--	1.1	--	0	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0181	--	--	--	--	--	0.018	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0174	--	--	--	0	--	0.017	0.060	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 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

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0043736	--
CO (Carbon Monoxide)	0.1583536	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.9395242	--
DT-EER (Drive Trace Energy Economy Rating)	0.4204818	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.618897	--
MFR FE (Manufacturer Fuel Economy)	20.499239	--
NOX (Nitrogen Oxide)	0.0082634	--
N2O (Nitrous Oxide)	0.0044169	--
HC-NM (Non-methane Hydrocarbon)	0.007188	--
NMOG (Non-methane organic gases)	0.0074036	--
HC-TOTAL (Total Hydrocarbon)	0.0115004	--

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	422.7353821	--

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 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0074	--	1.03	--	0	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0157	--	--	--	--	--	0.016	0.050	Pass
Fed	150,000 miles	Federal Tier 3 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	**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	**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	**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	**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 3 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**	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	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

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 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

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 3 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	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 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	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	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	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	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**	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

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

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	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	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	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	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		

Certification Region

Certification Summary Information Report

Test Group	VFMXT03.57AT	**Evaporative/Refueling Family**	VFMXR0200GDG
CA	California + CAA Section 177 states	FA	Federal

Exhaust Emission Standard Level

B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125

Certification Summary Information Report

Test Group	VFMXT03.57AT	**Evaporative/Refueling Family**	VFMXR0200GDG
L3SULEV170	California LEV-III SULEV170	L4ULEV200	California LEV-IV ULEV200
L3SULEV150	California LEV-III SULEV150	L4ULEV250	California LEV-IV ULEV250
L3LEV630	California LEV-III LEV630	L4ULEV270	California LEV-IV ULEV270
L3ULEV570	California LEV-III ULEV570	L4ULEV40	California LEV-IV ULEV40
L3ULEV400	California LEV-III ULEV400	L4ULEV400	California LEV-IV ULEV400
L3ULEV270	California LEV-III ULEV270	L4ULEV50	California LEV-IV ULEV50
L3SULEV230	California LEV-III SULEV230	L4ULEV60	California LEV-IV ULEV60
L3SULEV200	California LEV-III SULEV200	L4ULEV70	California LEV-IV ULEV70

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
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**	02/17/2026 10:57:02 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	--	**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

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	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	115 - NAVIGATOR 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	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

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	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

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 eqipped	**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

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
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	--

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	570	999
Optional Carbon-Related Exhaust Emissions	571	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	569.4484674	--

Manufacturer Test Comments NMOG = 1.1 * NMHCr

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

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 eqipped	**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:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	44.39	0.1933	0.03931	26.94	0.1117	0.0368	20.3

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

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline, Ethanol

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 eqipped	**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:

	Target Coefficients			Set Coefficients			
Coefficient Category	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**A (lbf)**	**B (lbf/mph)**	**C (lbf/mph**2)**	**EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients**
City/Highway/Evap	44.39	0.1933	0.03931	26.94	0.1117	0.0368	20.3

Emission Control Device Comments Test Request t18-0006-01; T3B125 / ULEV125

Certification Summary Information Report

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

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

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 eqipped	**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	**Creeper Gear**	No

Certification Summary Information Report

Test Group	VFMXT03.57AT	Evaporative/Refueling Family	VFMXR0260NDV

Dynamometer Coefficients:

Coefficient Category	Target Coefficients A (lbf)	Target Coefficients B (lbf/mph)	Target Coefficients C (lbf/mph**2)	Set Coefficients A (lbf)	Set Coefficients B (lbf/mph)	Set Coefficients C (lbf/mph**2)	EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
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 3 Bin 50	CO	0.36	--	--	--	0	--	0.4	12.5	Pass
Fed	120,000 miles	Federal Tier 3 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 3 Bin 50	CO	0.14	--	--	--	0	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.16	--	--	--	0	--	0.2	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0054	--	--	--	0	--	0.005	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0013	--	--	--	0	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0125	--	1.1	--	0	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0181	--	--	--	--	--	0.018	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0174	--	--	--	0	--	0.017	0.060	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0056	--	--	--	0	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 3 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

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0043736	--
CO (Carbon Monoxide)	0.1583536	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.9395242	--
DT-EER (Drive Trace Energy Economy Rating)	0.4204818	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.618897	--
MFR FE (Manufacturer Fuel Economy)	20.499239	--
NOX (Nitrogen Oxide)	0.0082634	--
N2O (Nitrous Oxide)	0.0044169	--
HC-NM (Non-methane Hydrocarbon)	0.007188	--
NMOG (Non-methane organic gases)	0.0074036	--
HC-TOTAL (Total Hydrocarbon)	0.0115004	--

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	422.7353821	--

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 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0074	--	1.03	--	0	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0157	--	--	--	--	--	0.016	0.050	Pass
Fed	150,000 miles	Federal Tier 3 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

Test Group	VFMXT03.57AT	**Evaporative/Refueling Family**	VFMXR0260NDV

Fuel Properties

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	**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	**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**	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**	0.745
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**	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 3 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**	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	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

Cert Region	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 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

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 3 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	Federal	**Cert/In-Use Code**	Both
Vehicle Class	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	**Standard Level**	Federal Tier 3 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	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**	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**	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

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	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**	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**	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

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	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	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

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

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	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		

Certification Region

Certification Summary Information Report

Test Group	VFMXT03.57AT	**Evaporative/Refueling Family**	VFMXR0260NDV
CA	California + CAA Section 177 states	FA	Federal

Exhaust Emission Standard Level

B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125

Certification Summary Information Report

Test Group	VFMXT03.57AT	**Evaporative/Refueling Family**	VFMXR0260NDV
L3SULEV170	California LEV-III SULEV170	L4ULEV200	California LEV-IV ULEV200
L3SULEV150	California LEV-III SULEV150	L4ULEV250	California LEV-IV ULEV250
L3LEV630	California LEV-III LEV630	L4ULEV270	California LEV-IV ULEV270
L3ULEV570	California LEV-III ULEV570	L4ULEV40	California LEV-IV ULEV40
L3ULEV400	California LEV-III ULEV400	L4ULEV400	California LEV-IV ULEV400
L3ULEV270	California LEV-III ULEV270	L4ULEV50	California LEV-IV ULEV50
L3SULEV230	California LEV-III SULEV230	L4ULEV60	California LEV-IV ULEV60
L3SULEV200	California LEV-III SULEV200	L4ULEV70	California LEV-IV ULEV70

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
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.

Test Group: VFMXT03.57AT
Issued: 02/10/2026 Revised:

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 (HO_2S)	Yes
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO_2S)	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 (HO_2S)	Yes
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO_2S)	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 ^{O}BTDC (No SPOUT connector)	PCM Controlled	
Idle RPM	PCM Controlled	
Target (Base) in Drive (A/C OFF/A/C ON)	575/575	Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies):
/C Idle in Drive at high ambients	650	

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

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)
Fuel Pump (PFI)	Signal from PCM	Fuel Flow	N/A	170 lph @ 12.0V/550kpa
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 68 mm
Fuel System Control Strategy[2]				
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
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 (DFSO)	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 16.00.05.00for 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

	FUL Exhaust Data Vehicle	Evaporative Data Vehicle (24 Gal)	CAP 2000 Evap. Data Vehicle (30.0 gal)
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, 2H02S, 2WR-HO2S DFI, SFI
Model	F150 Raptor 4X4	F150 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	25.7
Tires	LT315/80R17	LT275/65R18	
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

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)
- pcxota_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.

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	VTBDBMNB0000	VTBDBMN30000	VTBDBMN40000	VTBDBMN50000	VTBDBMNA0000	VTBDBMNB0000	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

SAP Manual Payment Request
(North America)

REF NO: 306183

NAME AND ADDRESS OF PAYEE	Employee	Ex-Employee / Board of Director	Company Code	Separate Check	Special Handling/ Instruction Key in S4
Environmental Protection Agency-MVECP				Y	
U.S. Bank - Government Lockbox 979032	Supplier Code		Due Date / Baseline Date	Currency	Amount
1300 Pennsylvania Ave NW - Washington DC 20004-3002	GXHSA		ASAP	USD	258,536.00

The requestor is responsible to ensure the supplier code has correct company name, remit to and/or banking information whether the payment is going by check or electronically/ACH.

REASON FOR DISBURSEMENT

CERTIFICATION FEES - EPA STANDARD ENGINE FAMILY, EXHAUST EMISSION CONTROL SYSTEM

Alternate Name & Address

COMMENTS (Shown on Remittance Advice/Not to include PII)

2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)

GL Account	Profit Center	Cost Center	Internal Order	Reference Key1	Reference Key2	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
63044030	2000005001	1000017919				306183	1/15/2026	258,536.00	N
								-	
							TOTAL	258,536.00	

Pre-requisites for Payment :

1. Requestors or Approvers to ensure the following
   - Receipt of Service
   - Price Validation
   - Supported by invoice or other documentation
2. Uses of Manual Payment Requests
3. Corporate Approval Authorities - Method of Payment

TYPE OF INVOICE:	MANUAL PAYMENT REQUEST -PERMISSIBLE USES (use drop down with Alt+down arrow key):	Uses of Manual Payment Requests	Not in Uses of Manual Payment Request

Requestor

	CDS ID	Date
Preparer/Requestor	TOLIVER	1/15/2026

Operations Approval - Receipt of Service

	CDS ID	Sign	Date
Operations Approval	LMERRIT2	DocuSigned by: Lawrence Merritt DF6ED4749EAC46B...	1/15/2026

Approvals per Corporate Approval Authorities - Method of Payment

Payment Item is on Uses of Manual Payment Requests	CDS ID	Sign	Date
Finance LL6+ Unlimited	MBEDOLLA	DocuSigned by: Ryan Derderian 4C2E2FB2C806433...	1/15/2026

Payment Item is NOT on Uses of Manual Payment Requests	CDS ID	Sign	Date
Finance LL5+ Unlimited			

It is important to protect personal data when retaining and forwarding this Payment Authorization Form and attachments, if any. Every effort must be made to prevent exposure.

The space below may be used for additional local requirements

May 2025 North American Check Request Form (Previous editions without the above fields may NOT be used)

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 27LWC12 772618193882

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.

Vehicle Homologation & Compliance
Environmental & Safety Compliance

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

March 4, 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 Tier 3 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**
Tier 3 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 VFMXR0200GDG VFMXR0260NDV	150k	0.500 grams per test	0.500 grams per test	0.05 grams/mile	0.20 grams /gallon	0.020 grams / test

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:
Jeff Glodich
5DAF4A8B9BF6498...

Jeffrey Glodich
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

SECTION 16

Confidential Information

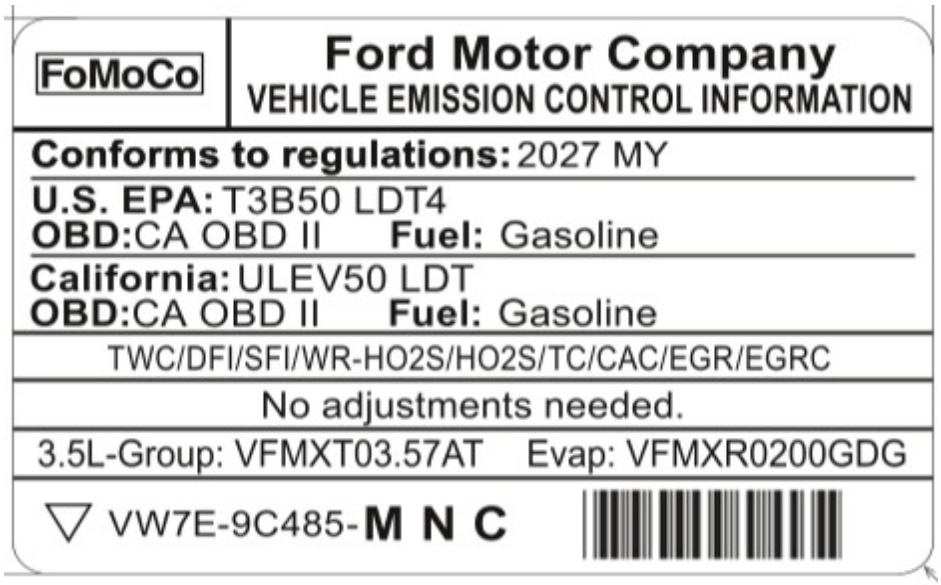
SECTION 17

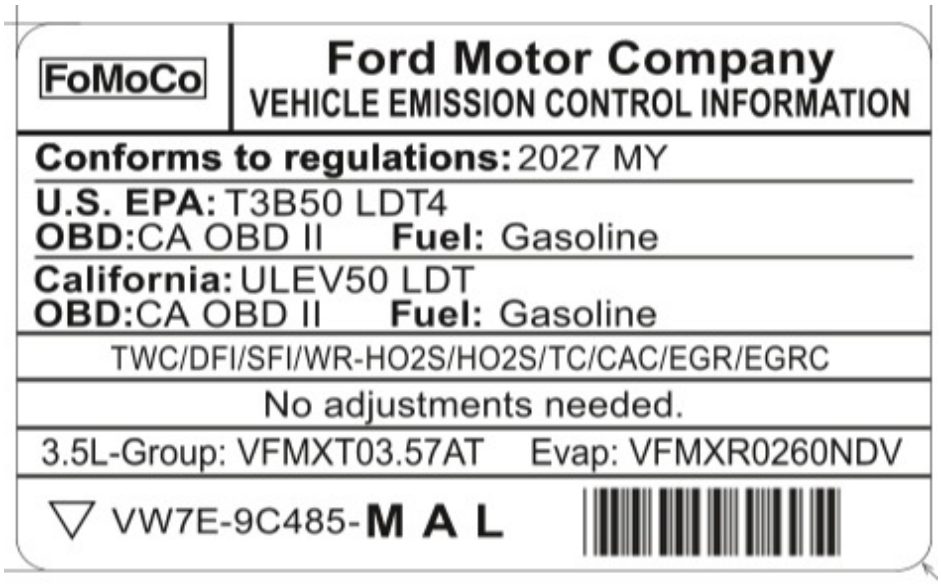
California ARB Requirements

SECTION 17

California ARB Requirements

VFMXT03.57AT





SECTION 18

Revisions

Application for Certification

Part 2