

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_APPIPT	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_APPIPT	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_APPIPT	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 medium-duty vehicle test group	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
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I,  , attest that any information provided is true, accurate, and complete.

(Responsible Party Signature Here)

From: noreply@salesforce.com on behalf of [California Air](#)
To: [Landt, Michael \(M.R.\)](#)
Subject: MS Fee Payment Confirmation for Invoice MSF250720
Date: Monday, February 9, 2026 12:39:51 PM
Attachments: [MSF250720 - signed.pdf](#)

WARNING: This message originated outside of Ford Motor Company

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

Dear Tina Oliver

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

1. Payment ID – 25ATD219
2. Date of Payment – 2/4/2026
3. Payment Status - Paid



Application for Certification

Part 1



FORD MOTOR COMPANY
APPLICATION FOR CERTIFICATION - PART 1

2027 Model Year

Test Group:	VFMXT02.34K2
Durability Group:	VFMXGPGNND2B
Evap. Families:	VFMXR0185NDF
Test Group Description:	2.3L I-4
Durability Group Description:	Four Stroke, Otto Cycle, Gasoline Fueled, Turbocharged, Catalyst Code D
Carlines Covered:	EXPLORER AWD EXPLORER RWD EXPLORER TREMOR AWD
Federal Applicable Standards:	Federal Exhaust - Interim Tier 4 Bin 30 Federal Evap - Tier 3 FTP CH ₄ - 0.030 g/mi FTP N ₂ O - 0.010 g/mi FTP PM - 0.003 g/mi FTP NMOG+NOX - 0.030 g/mi COLD CO - Cold NMHC - 0.4 g/mi
California Applicable Standards:	California Evap - LEV-III FTP PM - 0.003 g/mi FTP NMOG+NOX - 0.030 g/mi

Vehicles Tested

Exhaust Emission Vehicle:		Evaporative Emission Vehicle:	
RTW1-2.3-J-779/Config 3		RTW1-2.3-J-780/Config 0 (VFMXR0185NDF)	
FTP (E10) TN	SFMX10088599	2Day TN	SFMX10083319
HWY (E10) TN	SFMX10088600	3Day TN	SFMX10083318
US06 (E10) TN	SFMX10088601	Linking TN	SFMX10083317
SC03 (E10) TN	SFMX10088602	RL TN	SFMX10083320
Cold CO (E10) TN	SFMX10088603	LTH1-3.5-J-435/Config 0 (VFMXR0185NDF)	
FTP (E0) TN	SFMX10088604	BETP	LFMX10060474
HWY (E0) TN	SFMX10088605	LTH1-3.5-J-429/Config 0 (VFMXR0185NDF)	
US06 (E0) TN	SFMX10088607	ORVR	LFMX10060475
SC03 (E0) TN	SFMX10088608		
Cold CO (E0) TN	SFMX10088609		

Release Date: September 21, 2026

For Questions, Contact:

Romig, John, jromig4@ford.com (1-313-4393159)



Part 1 Application Index

- § 00.00.00.00 Cover Page**
- § 02.00.00.00 Durability Group Description**
- § 03.00.00.00 Evaporative/ Refueling Family Description**
- § 04.00.00.00 Durability Procedure Description**
- § 05.00.00.00 Test Group Description**
- § 06.00.00.00 Test Vehicle Description**
- § 07.00.00.00 Test Results**
 - 07.00.01.00 EPA Certification Summary Information (CSI) report(s)
- § 08.00.00.00 Emission Testing Waiver Statements**
 - 08.00.01.00 Statements of compliance
- § 09.00.00.00 OBDII System Description**
- § 10.00.00.00 Alternate –Fueled Vehicle Description**
- § 11.00.00.00 AECD Descriptions**
- § 12.00.00.00 Description of Vehicles Covered by Certificate and Test Parameters**
 - 12.00.01.00 Common Family Parameters
 - 12.00.02.00 Calibration Description
 - 12.00.03.00 Calibration Parts List
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 - 16.00.01.00 Family Catalyst Information
 - 16.00.03.00 OBD II Deficiency Summary
 - 16.00.04.00 DF Summary
 - 16.00.05.00 Powertrain Control Module (PCM) - Parameters
- § 17.00.00.00 California ARB Information**
 - 17.00.01.00 Certification Review Sheet
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- § 18.00.00.00 Revisions**

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



SECTION 2

Durability Group Description

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



SECTION 3

Evaporative/Refueling Family Description

03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Name: VFMXR0185NDF

2027 MY 2.3L GTPFDI Explorer

Emission Component	Part Number	Specification
Capless Refueling Component Insert	LU5A-9D000-CC	
Vapor Hose with ORVR Recirculation Orifice	M1M3-9D683-JB	Recirc. Orifice Diameter: 2.7 mm
Combo Fuel Limiting Vent Valve & Grade Vent Valve	L1M3-9B190-JA	Main FLVV Orifice: Ø 4.5 mm (First Stage) Ø 12.0 mm (Second Stage) Main GVV Orifice: Ø 2.25 mm Ø 0.50 mm (Secondary)
Grade Vent Valve (Internal)	L1M3-9B593-AA	Main GVV Orifice: Ø 2.25 mm REF Ø 0.50 mm Ref (Secondary)
Grade Vent Valve (Remote)	L1M3-9B593-BB	Main GVV Orifice: Ø 2.25 mm REF Ø 0.50 mm REF(Secondary)
Fuel Tank Pressure Sensor	9U5A-9C052-BC	
Carbon Canister	LU5A-9D653-HC	185g BWC 2.8L Total Volume (includes 0.066L Bleed Element)
Canister Purge Valve	EU5A-9G866-BD	85 SLPM
AIS Hydrocarbon Trap	GN15-9T303-AA	



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	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Certificate Number	--	CARB Executive Order #	--
Certificate Issue Date	--	Certificate Revision Date	--
Certificate Effective Date	--	Conditional Certificate	--
CSI Revision #	--	CSI Submission/Revision Date	04/13/2026 01:39:18 PM
Model Year	2027		

Test Group Information

CSI Type	New	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	--
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	--
Fuel Cell Indicator	--	EPA Vehicle Class	LDT2
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	VFMXGPGNND2B	Durability Group Equivalency Factor	1.1
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	No		
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	1
OBD Deficiencies Comments	--		
Mfr Test Group Comments	E0 FE Litmus= 16.7 City vs 16.5 City Threshold, 21.7 HWY vs. 20.7 HWY Threshold		
Mfr Exhaust / Evap Standards Comments	--		

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	03/16/2026 02:18:10 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	See comments below				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	185	Number of Primary Canisters	1				
Number of Bleed Canisters	1	Bleed Canister Total Working Capacity (grams)	2				
Mfr Evaporative/Refueling Family Comments	1 X 2.7L HA 3-port Rect. + 1 X 0.066L Bleed						
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				
VFMXR0185NDF-001	50 State	0.02	--				
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	163 - EXPLORER RWD	Federal	2-Wheel Drive, Rear	Automatic	10	Yes
Ford Motor Company	1 - Ford	66 - EXPLORER TREMOR AWD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	10	Yes
Ford Motor Company	1 - Ford	164 - EXPLORER AWD	Federal	Part-time 4-Wheel Drive	Automatic	10	Yes
Ford Motor Company	1 - Ford	163 - EXPLORER RWD	California + CAA Section 177 states	2-Wheel Drive, Rear	Automatic	10	Yes
Ford Motor Company	1 - Ford	164 - EXPLORER AWD	California + CAA Section 177 states	Part-time 4-Wheel Drive	Automatic	10	Yes
Ford Motor Company	1 - Ford	66 - EXPLORER TREMOR AWD	Federal	Part-time 4-Wheel Drive	Automatic	10	Yes

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF	
Engine Description				
Hybrid Type	--	Hybrid Description	--	
Engine Type	4-Stroke Spark Ignition	Mfr Engine Description	2.3L Liter, I4, LDT2	
Engine Block Arrangement	Inline	Mfr Engine Block Arrangement Description	2.3L I-4	
Camless Valvetrain Indicator	No	Oil Viscosity/Classification	SAE 5W-30 / ILSAC GF-7	
Number of Cylinders/Rotors	4	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	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
Mfr After Treatment Device (ATD) Comments				
--				
Direct Ozone Reduction (DOR) Device				
Not Equipped				
Mfr Emission Control Device Comments				
--				
Engine Configuration Number 1				
Engine Displacement (liters)	2.3	Engine Rated Horsepower	300	
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2	
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	1	
Air Aspiration Device Configuration	Single	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	2	
Air/Fuel Sensor # 1 Type	Heated air fuel	Air/Fuel Sensor # 1 Description	WR-HO2S	
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	HO2S	
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	--			

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family			VFMXR0185NDF		
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		SFMX10088599	SFMX10088601	SFMX10088602	SFMX10088603	SFMX10088600	19.8	228.2	27.4	286.1	1.0

SFTP LEV-III Official Test Numbers				
Test Group Fuel		FTP	US06	SC03
Gasoline		SFMX10088599	SFMX10088601	SFMX10088602

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	LTH1-3.5-J-429 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	LFMXT03.55HM	Original Evaporative/Refueling Family	LFMXR0185NDH						
Original Test Vehicle Model Year	2020								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	T150 Transit Van MDPV						
Leak Family Details									
Leak Family Identifier	--	Leak Family Name	--						
Drive Sources and Fuel System Details									
	<table border="1"> <tr> <th>Drive Source and Fuel#</th><th>Drive Source</th><th>Fuel</th></tr> <tr> <td>1</td><td>Combustion Engine</td><td>Gasoline, Ethanol</td></tr> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline, Ethanol		
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 - Initial system miles) * Correction factor								
Odometer Correction Units	Miles								
Engine Code	LTTHKXNB91	Rated Horsepower	275						
Displacement (liters)	3.5								
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	Part-time 4-Wheel Drive						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)						
Curb Weight (lbs)	6276	Equivalent Test Weight (pounds)	6500						
GVWR (lbs)	8550	N/V Ratio	29.4						
Axle Ratio	3.73								
Transmission Type	Semi-Automatic	# of Transmission Gears	10						
Transmission Lockup	Yes	Creep Gear	No						

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	51.3	0.4872	0.04363	22.77	0.32945	0.04248	24.6
Cold CO	51.3	0.4872	0.04363	22.77	0.32945	0.04248	N/A
US06	51.3	0.4872	0.04363	22.77	0.32945	0.04248	N/A

Emission Control Device Comments	4K EVAP E10 T20-0108-01
Manufacturer Test Vehicle Comments	Transit AWD MDPV (24.7 gal tank)

Test #	LFMX10060475	Test Procedure	24 - Federal fuel refueling test (ORVR)
Exhaust Test # for this Evap Test	LFMX10061436	Test Fuel Type	59 - Tier 3 E10 Premium Gasoline (10 RVP-FFV ORVR Only)
Test Date	04/30/2019	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	4837	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	0.001	0.01	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.008	0.001	0.01	0.20	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF

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Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF						
Emission Control Device Comments	T20-0143-01 T150 <10K (24.7 gal fuel tank)								
Manufacturer Test Vehicle Comments	T150 235/65R16C simulating a T350 205/75R16								
Test #	LFMX10060474	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	04/26/2019	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	--								
Test Start Odometer Reading	4745	Odometer Units	M						
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--						
State of Charge Delta	No								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No						
Test Results									
<table border="1"> <tr> <td>Test Result Name</td> <td>Unrounded Test Result</td> <td>Verify Calculated FE Equivalent Value</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.0033</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value	HC-TOTAL (Total Hydrocarbon)	0.0033	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value							
HC-TOTAL (Total Hydrocarbon)	0.0033	--							
Manufacturer Test Comments									
BETP E10 Evaporative Test Measurement Method is "Total Hydrocarbon (THC)									
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	0.0033	0	0.003	0.020	Pass	
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	HC-TOTAL	0.0033	0	0.003	0.020	Pass	

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF					
Emission Data Vehicle Information								
Vehicle ID / Configuration	RTW1-2.3-J-779 / 3	Manufacturer Vehicle Configuration Number	0					
Original Test Group Name	SFMXT02.34K2	Original Evaporative/Refueling Family	SFMXR0185NDF					
Original Test Vehicle Model Year	2025							
Vehicle Model								
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Explorer Tremor AWD					
Leak Family Details								
Leak Family Identifier	001	Leak Family Name	SFMXR0185NDF-001					
Drive Sources and Fuel System Details								
	<table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>	Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline	
Drive Source and Fuel#	Drive Source	Fuel						
1	Combustion Engine	Gasoline						
Hybrid Indicator	No							
Multiple Fuel Storage	--	Multiple Fuel Combustion	--					
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--					
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--					
Off-board charge Capable Indicator	--							
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03					
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles							
Odometer Correction Units	Miles							
Engine Code	SCTWN3NA06	Rated Horsepower	300					
Displacement (liters)	2.3							
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'						
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single					
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear					
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)					
Curb Weight (lbs)	4596	Equivalent Test Weight (pounds)	5000					
GVWR (lbs)	5940	N/V Ratio	25.1					
Axle Ratio	3.58							
Transmission Type	Automatic	# of Transmission Gears	10					
Transmission Lockup	Yes	Creep Gear	No					

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family		VFMXR0185NDF	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	44.41	0.0514	0.03372	18.76	0.0362	0.03199	17.5	
Cold CO	44.41	0.0514	0.03372	18.76	0.0362	0.03199	N/A	
US06	44.41	0.0514	0.03372	18.76	0.0362	0.03199	N/A	
Emission Control Device Comments		T3B30						
Manufacturer Test Vehicle Comments		2.3L Ford Explorer Tremor						

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088599	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	04/09/2024	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4333	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)	426.255277	--
FE BAG 1 (Bag 1 Fuel Economy)	20.342138	20.342138
CO2 BAG 2 (Bag 2 Carbon Dioxide)	385.91692	--
FE BAG 2 (Bag 2 Fuel Economy)	22.531924	22.531924
CO2 BAG 3 (Bag 3 Carbon Dioxide)	383.7017	--
FE BAG 3 (Bag 3 Fuel Economy)	22.635995	22.635995
METHANE (CH4 - Methane)	0.0081	--
CO (Carbon Monoxide)	0.37	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.101147	--
DT-EER (Drive Trace Energy Economy Rating)	-1.00516	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.868255	--
HCHO (Formaldehyde)	0.0002	--
MFR FE (Manufacturer Fuel Economy)	22.1	22.1
NOX (Nitrogen Oxide)	0.005256	--
NMOG (Non-methane organic gases)	0.006417	--
PM (Particulate Matter)	0.0003	--
HC-TOTAL (Total Hydrocarbon)	0.013497	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	395	999

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family				VFMXR0185NDF			
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		393.7			--					
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.37	--	--	--	--	--	0.4	1.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	CO-COMP	0.67	--	--	--	--	--	0.7	4.2	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	METHANE	0.0081	--	--	--	--	--	0.008	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0064	--	1.1	--	--	--	0.006	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0117	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX-COMP	0.0252	--	--	--	--	--	0.025	0.040	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0053	--	--	--	--	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.0003	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.37	--	--	--	--	--	0.4	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	CO-COMP	0.67	--	--	--	--	--	0.7	4.2	Pass
CA	150,000 miles	California LEV-III SULEV30	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0064	--	1.1	--	--	--	0.006	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0117	--	--	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX-COMP	0.0252	--	--	--	--	--	0.025	0.040	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0053	--	--	--	--	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	--	--	0.000	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	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088603	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)
Test Date	04/24/2024	Fuel	Gasoline
Fuel Batch ID	375-B	Fuel Calibration Number	51
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4414	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)	582.51823	--
FE BAG 1 (Bag 1 Fuel Economy)	14.73127	14.73127
CO2 BAG 2 (Bag 2 Carbon Dioxide)	475.65761	--
FE BAG 2 (Bag 2 Fuel Economy)	18.25408	18.25408
CO2 BAG 3 (Bag 3 Carbon Dioxide)	437.37733	--
FE BAG 3 (Bag 3 Fuel Economy)	19.88583	19.88583
METHANE (CH4 - Methane)	0.01343	--
CO (Carbon Monoxide)	0.92	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.015253	--
DT-EER (Drive Trace Energy Economy Rating)	-0.535893	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.305348	--
MFR FE (Manufacturer Fuel Economy)	17.8	17.8
NOX (Nitrogen Oxide)	0.01538	--
N2O (Nitrous Oxide)	0.01	--
HC-NM (Non-methane Hydrocarbon)	0.04	--
NMOG (Non-methane organic gases)	0.04806	--
HC-TOTAL (Total Hydrocarbon)	0.05726	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	489	--

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family				VFMXR0185NDF		
		Test Result Name		Unrounded Test Result			Verify Calculated CO2					
		Carbon dioxide		487.3			--					
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	50,000 miles	Federal Tier 4 Bin 30	CO	0.92	--	--	--	--	--	0.9	12.5	Pass
Fed	120,000 miles	Federal Tier 4 Bin 30	HC-NM	0.04	--	--	--	--	--	0.0	0.4	Pass
CA	50,000 miles	California LEV-III SULEV30	CO	0.92	--	--	--	--	--	0.9	12.5	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088604	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/05/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4723	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)	447.54599	--
FE BAG 1 (Bag 1 Fuel Economy)	19.810769	19.810769
CO2 BAG 2 (Bag 2 Carbon Dioxide)	411.743988	--
FE BAG 2 (Bag 2 Fuel Economy)	21.649452	21.649452
CO2 BAG 3 (Bag 3 Carbon Dioxide)	394.272003	--
FE BAG 3 (Bag 3 Fuel Economy)	22.640116	22.640116
METHANE (CH4 - Methane)	0.0104	--
CO (Carbon Monoxide)	0.58	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.091874	--
DT-EER (Drive Trace Energy Economy Rating)	-0.477027	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.140039	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	21.5	21.5
NOX (Nitrogen Oxide)	0.004716	--
N2O (Nitrous Oxide)	0.0008	--
HC-NM (Non-methane Hydrocarbon)	0.007007	--
NMOG (Non-methane organic gases)	0.007288	--
PM (Particulate Matter)	0.000397	--
HC-TOTAL (Total Hydrocarbon)	0.016877	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	415	415

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family				VFMXR0185NDF		
		Test Result Name			Unrounded Test Result			Verify Calculated CO2				
		Carbon dioxide			414.4			--				
Manufacturer Test Comments		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	CO	0.58	--	--	--	--	--	0.6	1.0	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	CREE	415	--	--	--	0	--	415	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	HCHO	0.0000	--	--	--	--	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	METHANE	0.0104	--	--	--	--	--	0.010	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	N2O	0.0008	--	--	--	--	--	0.001	0.010	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0073	--	1.1	--	--	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0120	--	--	--	--	--	0.012	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0047	--	--	--	--	--	0.005	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.0004	--	--	--	--	--	0.000	0.003	Pass
CA	150,000 miles	California LEV-III SULEV30	CO	0.58	--	--	--	--	--	0.6	1.0	Pass
CA	150,000 miles	California LEV-III SULEV30	HCHO	0.0000	--	--	--	--	--	0.000	0.004	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0073	--	1.1	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0120	--	--	--	--	--	0.012	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0047	--	--	--	--	--	0.005	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0004	--	--	--	--	--	0.000	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		VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF																																																			
Test #	SFMX10088609	Test Procedure	11 - Cold CO																																																				
Exhaust Test # for this Evap Test	--	Test Fuel Type	26 - Cold CO Regular (Tier 2)																																																				
Test Date	12/10/2024	Fuel	Gasoline																																																				
Fuel Batch ID	307B	Fuel Calibration Number	18																																																				
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined																																																				
Verify Test Lab ID	APTL																																																						
E10 Evaporative Test Measurement Method	--																																																						
Test Start Odometer Reading	123	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																																																							
<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>569.908997</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>15.197788</td><td>15.197788</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>466.246002</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>18.843947</td><td>18.843947</td></tr><tr><td>CO2 BAG 3 (Bag 3 Carbon Dioxide)</td><td>400.848999</td><td>--</td></tr><tr><td>FE BAG 3 (Bag 3 Fuel Economy)</td><td>21.892529</td><td>21.892529</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.01725</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>1.06</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.205512</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.44722</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>0.480667</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>18.6</td><td>18.6</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.025559</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.04</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.046728</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.062348</td><td>--</td></tr></table>					Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	569.908997	--	FE BAG 1 (Bag 1 Fuel Economy)	15.197788	15.197788	CO2 BAG 2 (Bag 2 Carbon Dioxide)	466.246002	--	FE BAG 2 (Bag 2 Fuel Economy)	18.843947	18.843947	CO2 BAG 3 (Bag 3 Carbon Dioxide)	400.848999	--	FE BAG 3 (Bag 3 Fuel Economy)	21.892529	21.892529	METHANE (CH4 - Methane)	0.01725	--	CO (Carbon Monoxide)	1.06	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.205512	--	DT-EER (Drive Trace Energy Economy Rating)	-0.44722	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.480667	--	MFR FE (Manufacturer Fuel Economy)	18.6	18.6	NOX (Nitrogen Oxide)	0.025559	--	HC-NM (Non-methane Hydrocarbon)	0.04	--	NMOG (Non-methane organic gases)	0.046728	--	HC-TOTAL (Total Hydrocarbon)	0.062348	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																					
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<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CREE/OPT-CREE</th></tr><tr><td>Carbon-Related Exhaust Emissions</td><td>472</td><td>--</td></tr></table>					Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	Carbon-Related Exhaust Emissions	472	--																																													
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE																																																					
Carbon-Related Exhaust Emissions	472	--																																																					
<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>469.8</td><td>--</td></tr></table>					Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	469.8	--																																													
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Carbon dioxide	469.8	--																																																					

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Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088600	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	04/09/2024	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4333	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)	0.001744	--
CO (Carbon Monoxide)	0.100155	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.3459	--
DT-EER (Drive Trace Energy Economy Rating)	-0.358514	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.51515	--
HCHO (Formaldehyde)	0	--
MFR FE (Manufacturer Fuel Economy)	30.6	30.6
NOX (Nitrogen Oxide)	0.000836	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.001268	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	284	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	283.6	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family					VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0000	--	1.03	--	--	--	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0008	--	--	--	--	--	0.001	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0008	--	--	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0000	--	1.03	--	--	--	0.000	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0008	--	--	--	--	--	0.001	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0008	--	--	--	--	--	0.001	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	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088605	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/05/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4723	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)	0.004693	--
CO (Carbon Monoxide)	0.068269	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.191408	--
DT-EER (Drive Trace Energy Economy Rating)	-0.245055	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.400963	--
MFR FE (Manufacturer Fuel Economy)	30.3	30.3
NOX (Nitrogen Oxide)	0.000726	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.00073	--
NMOG (Non-methane organic gases)	0.000759	--
HC-TOTAL (Total Hydrocarbon)	0.005201	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	295	295

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	295.2	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family					VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	CREE	295	--	--	--	0	--	295	--	--
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG	0.0008	--	1.03	--	--	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NMOG+NOX	0.0015	--	--	--	--	--	0.002	0.030	Pass
Fed	150,000 miles	Federal Tier 4 Bin 30	NOX	0.0007	--	--	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG	0.0008	--	1.03	--	--	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-III SULEV30	NMOG+NOX	0.0015	--	--	--	--	--	0.002	0.030	Pass
CA	150,000 miles	California LEV-III SULEV30	NOX	0.0007	--	--	--	--	--	0.001	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	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088601	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	04/09/2024	Fuel	Gasoline
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4364	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)	757.321281	--	
FE BAG 1 (Bag 1 Fuel Economy)	11.363476	11.363476	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	382.370568	--	
FE BAG 2 (Bag 2 Fuel Economy)	22.709465	22.709465	
METHANE (CH4 - Methane)	0.012485	--	
CO (Carbon Monoxide)	1.760518	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.67504	--	
DT-EER (Drive Trace Energy Economy Rating)	-1.32052	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.83624	--	
MFR FE (Manufacturer Fuel Economy)	18.6	18.6	
NOX (Nitrogen Oxide)	0.028223	--	
HC-NM (Non-methane Hydrocarbon)	0.034227	--	
NMOG (Non-methane organic gases)	0.035253	--	
PM (Particulate Matter)	0.0003	--	
HC-TOTAL (Total Hydrocarbon)	0.046104	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	469	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	465.5	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family					VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.0003	--	--	--	--	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0003	--	--	--	--	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088607	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/05/2024	Fuel	Gasoline
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	LDT2 (LVW 3751-5750, GVW 0-6000)	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4755	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)	742.382996	--	
FE BAG 1 (Bag 1 Fuel Economy)	11.949046	11.949046	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	378.734009	--	
FE BAG 2 (Bag 2 Fuel Economy)	23.461378	23.461378	
METHANE (CH4 - Methane)	0.016194	--	
CO (Carbon Monoxide)	1.44475	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.2367	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.901495	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.7899	--	
MFR FE (Manufacturer Fuel Economy)	19.4	19.4	
NOX (Nitrogen Oxide)	0.031826	--	
HC-NM (Non-methane Hydrocarbon)	0.049251	--	
NMOG (Non-methane organic gases)	0.051221	--	
PM (Particulate Matter)	0.0005	--	
HC-TOTAL (Total Hydrocarbon)	0.064679	--	
Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE	
Carbon-Related Exhaust Emissions	461	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	459.3	--	
Manufacturer Test Comments	--		

Certification Summary Information Report

Test Group		VFMXT02.34K2				Evaporative/Refueling Family				VFMXR0185NDF		
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 4 Bin 30	PM	0.0005	--	--	--	--	--	0.000	0.006	Pass
CA	150,000 miles	California LEV-III SULEV30	PM	0.0005	--	--	--	--	--	0.000	0.006	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088602	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	04/09/2024	Fuel	N/A
Fuel Batch ID	373-B	Fuel Calibration Number	85
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4380	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)	0.01006	--
CO (Carbon Monoxide)	0.11747	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.634354	--
DT-EER (Drive Trace Energy Economy Rating)	-0.719689	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.323668	--
MFR FE (Manufacturer Fuel Economy)	17.6	17.6
NOX (Nitrogen Oxide)	0.00224	--
HC-NM (Non-methane Hydrocarbon)	0.006626	--
NMOG (Non-methane organic gases)	0.00682	--
HC-TOTAL (Total Hydrocarbon)	0.01739	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	494	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	494	--

Manufacturer Test Comments --

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10088608	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	61 - Tier 2 Cert Gasoline
Test Date	12/06/2024	Fuel	N/A
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Vehicle Class	N/A	DF Type	Mfr. Determined
Verify Test Lab ID	APTL		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4771	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)	0.010664	--
CO (Carbon Monoxide)	0.242138	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.812327	--
DT-EER (Drive Trace Energy Economy Rating)	-0.951141	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.23977	--
MFR FE (Manufacturer Fuel Economy)	17.3	17.3
NOX (Nitrogen Oxide)	0.001178	--
HC-NM (Non-methane Hydrocarbon)	0.009993	--
NMOG (Non-methane organic gases)	0.010392	--
HC-TOTAL (Total Hydrocarbon)	0.02076	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	516	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	515.6	--

Manufacturer Test Comments --

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF						
Emission Data Vehicle Information									
Vehicle ID / Configuration	RTW1-2.3-J-780 / 0	Manufacturer Vehicle Configuration Number	0						
Original Test Group Name	SFMXT02.34K2	Original Evaporative/Refueling Family	SFMXR0185NDF						
Original Test Vehicle Model Year	2025								
Vehicle Model									
Represented Test Vehicle Make	Ford	Represented Test Vehicle Model	Explorer AWD						
Leak Family Details									
Leak Family Identifier	001	Leak Family Name	SFMXR0185NDF-001						
Drive Sources and Fuel System Details									
	<table><tr><td>Drive Source and Fuel#</td><td>Drive Source</td><td>Fuel</td></tr><tr><td>1</td><td>Combustion Engine</td><td>Gasoline</td></tr></table>			Drive Source and Fuel#	Drive Source	Fuel	1	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel							
1	Combustion Engine	Gasoline							
Hybrid Indicator	No								
Multiple Fuel Storage	--	Multiple Fuel Combustion	--						
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--						
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--						
Off-board charge Capable Indicator	--								
Odometer Correction -- Initial	0	Odometer Correction Factor	1.03						
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles								
Odometer Correction Units	Miles								
Engine Code	RCTWN3NA01	Rated Horsepower	300						
Displacement (liters)	2.3								
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'							
Number of Air Aspiration Devices	1	Air Aspiration Device Configuration	Single						
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear						
Shift Indicator Light Usage	Not equipped	Aged Emission Components	150,000 (mi)						
Curb Weight (lbs)	4596	Equivalent Test Weight (pounds)	5000						
GVWR (lbs)	5940	N/V Ratio	25.1						
Axle Ratio	3.58								
Transmission Type	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	44.41	0.0514	0.03372	18.76	0.0362	0.03199	17.5		
Emission Control Device Comments	T3B30/SULEV30								

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Manufacturer Test Vehicle Comments	2.3L Ford Explorer		

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10083317	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	08/04/2023	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	4029	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)	455.64845	--
FE BAG 1 (Bag 1 Fuel Economy)	19.05433	19.05433
CO2 BAG 2 (Bag 2 Carbon Dioxide)	425.57879	--
FE BAG 2 (Bag 2 Fuel Economy)	20.47263	20.47263
CO2 BAG 3 (Bag 3 Carbon Dioxide)	398.47901	--
FE BAG 3 (Bag 3 Fuel Economy)	21.90053	21.90053
METHANE (CH4 - Methane)	0.00432	--
CO (Carbon Monoxide)	0.37314	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.8218	--
DT-EER (Drive Trace Energy Economy Rating)	0.4495	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.4422	--
MFR FE (Manufacturer Fuel Economy)	20.5	20.5
NOX (Nitrogen Oxide)	0.005535	--
N2O (Nitrous Oxide)	0.0004	--
HC-NM (Non-methane Hydrocarbon)	0.005257	--
NMOG (Non-methane organic gases)	0.005468	--
PM (Particulate Matter)	0.000329	--
HC-TOTAL (Total Hydrocarbon)	0.00929	--

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
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Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	425	999
Optional Carbon-Related Exhaust Emissions	424.8241	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	424.36783	--

Manufacturer Test Comments Linking test

Test #	SFMX10083318	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	SFMX10083317	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	09/27/2023	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	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4181	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)	0.173	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.173	--

Manufacturer Test Comments 3 Day EVAP THC x 1.08

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	0.1730	0.0000	0.173	0.400	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.1730	0.0000	0.173	0.400	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Test #	SFMX10083319	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	SFMX10083317	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
Test Date	10/05/2023	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	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	4205	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)	0.171	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.171	--

Manufacturer Test Comments

3 Day EVAP THC x 1.08

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	0.1710	0.0000	0.171	0.400	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.1710	0.0000	0.171	0.400	Pass

Certification Summary Information Report

Test Group	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF									
Test #	SFMX10083320	Test Procedure	32 - Federal Fuel Running Loss									
Exhaust Test # for this Evap Test	SFMX10083317	Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)									
Test Date	09/27/2023	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	Calculated (1.08 x FID Total Hydrocarbons)											
Test Start Odometer Reading	4181	Odometer Units	M									
4WD Test Dyno	No	Diesel Adjustment Factor Usage	--									
State of Charge Delta	No											
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	No									
Test Results												
<table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>OMHCE (Organic material Hydrocarbon Equivalent)</td> <td>0</td> <td>--</td> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0</td> <td>--</td> </tr> </tbody> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	OMHCE (Organic material Hydrocarbon Equivalent)	0	--	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)										
OMHCE (Organic material Hydrocarbon Equivalent)	0	--										
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0	--										
Manufacturer Test Comments --												
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	VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Fuel Properties			
Fuel Batch ID	373-B	Fuel Calibration Number	85
Test Fuel Type	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	04/02/2024
Fuel Batch Calibration Effective Date	04/01/2024	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	0.751
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17948
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	Weight Fraction CO2	--
Fuel Batch ID	CERT_5	Fuel Calibration Number	176
Test Fuel Type	61 - Tier 2 Cert Gasoline	Fuel Batch Calibration Date	11/19/2024
Fuel Batch Calibration Effective Date	11/19/2024	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	0.744
Fuel Ethanol Volume Percent (%)	--	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18339
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865	Weight Fraction CO2	--
Fuel Batch ID	375-B	Fuel Calibration Number	51
Test Fuel Type	28 - Cold CO E10 Regular Gasoline (Tier 3)	Fuel Batch Calibration Date	02/02/2024
Fuel Batch Calibration Effective Date	02/02/2024	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	0.746
Fuel Ethanol Volume Percent (%)	9.8	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	17901
Fuel Net Heat of Combustion (E10) (MJ/kg)	--	Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.829	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	--

Certification Summary Information Report

Test Group		VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
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	307B		Fuel Calibration Number	18
Test Fuel Type	26 - Cold CO Regular (Tier 2)		Fuel Batch Calibration Date	03/31/2023
Fuel Batch Calibration Effective Date	03/31/2023		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	0.734
Fuel Ethanol Volume Percent (%)	--		Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	18678
Fuel Net Heat of Combustion (E10) (MJ/kg)	--		Fuel Carbon Mass Fraction (E10)	--
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	0.865		Weight Fraction CO2	--

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family			VFMXR0185NDF	
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 4 Bin 30	
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	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30	
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	--	--	--	--	--	--	--	1.0
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	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family			VFMXR0185NDF	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 4 Bin 30	
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	--	--	--	--	--	--	--	1.0
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004
150,000 miles	METHANE	--	--	--	--	--	--	--	0.030
150,000 miles	N2O	--	--	--	--	--	--	--	0.010
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.030
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.040
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 4 Bin 30	
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		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30	
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	--	0.030
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		VFMXT02.34K2			Evaporative/Refueling Family			VFMXR0185NDF	
Cert Region		Federal			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			Federal Tier 4 Bin 30	
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
120,000 miles	HC-NM	--	--	--	--	--	--	--	0.4

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30	
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

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Both	
Vehicle Class		LDT2 (LVW 3751-5750, GVW 0-6000)			Standard Level			California LEV-III SULEV30	
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

Evaporative/Refueling Standards

Evaporative/Refueling Family		VFMXR0185NDF		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	--	0.400	0.0000		

Certification Summary Information Report

Test Group		VFMXT02.34K2		Evaporative/Refueling Family		VFMXR0185NDF	
Evaporative/Refueling Family		VFMXR0185NDF		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	0.001		
Evaporative/Refueling Family		VFMXR0185NDF		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	--	0.400	0.0000		
Evaporative/Refueling Family		VFMXR0185NDF		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	--	0.400	0.0000		
Evaporative/Refueling Family		VFMXR0185NDF		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		VFMXR0185NDF		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	--	0.400	0.0000		

Certification Summary Information Report

Test Group		VFMXT02.34K2		Evaporative/Refueling Family		VFMXR0185NDF					
Evaporative/Refueling Family		VFMXR0185NDF		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		0.001	
Evaporative/Refueling Family		VFMXR0185NDF		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		VFMXR0185NDF		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		VFMXR0185NDF		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		VFMXT02.34K2	Evaporative/Refueling Family	VFMXR0185NDF
Glossary				
Useful Life				
4	4,000 miles	120	120,000 miles	
50	50,000 miles	150	150,000 miles	
100	100,000 miles			
Emission Name				
HC-TOTAL	Total Hydrocarbon	COMB-CREE	Combined Carbon-Related Exhaust Emissions	
CO	Carbon Monoxide	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
CO2	Carbon dioxide	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
CREE	Carbon-Related Exhaust Emissions	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
OPT-CREE	Optional Carbon-Related Exhaust Emissions	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
NOX	Nitrogen Oxide	LEAK-DIA	Effective Leak Diameter (inches)	
PM	Particulate Matter	LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
PM-COMP	SFTP Composite Particulate Matter	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
HC-NM	Non-methane Hydrocarbon	KW-HRS	Integrated DC KW-HRS	
OMHCE	Organic material Hydrocarbon Equivalent	CH4 BAG 1	Bag 1 Methane	
OMNMHCE	Organic material non-methane HC equivalent	CH4 BAG 2	Bag 2 Methane	
NMOG	Non-methane organic gases	CH4 BAG 3	Bag 3 Methane	
HCHO	Formaldehyde	CH4 BAG 4	Bag 4 Methane	
H3C2HO	Acetaldehyde	CO BAG 1	Bag 1 Carbon Monoxide	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	CO BAG 2	Bag 2 Carbon Monoxide	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	CO BAG 3	Bag 3 Carbon Monoxide	
CO-COMP	SFTP Composite Carbon Monoxide	CO BAG 4	Bag 4 Carbon Monoxide	
ETHANOL	C2H5OH - Ethanol	NMOG BAG 1	Bag 1 Non-methane organic gases	
FE BAG 1	Bag 1 Fuel Economy	NMOG BAG 2	Bag 2 Non-methane organic gases	
FE BAG 2	Bag 2 Fuel Economy	NMOG BAG 3	Bag 3 Non-methane organic gases	
FE BAG 3	Bag 3 Fuel Economy	NMOG BAG 4	Bag 4 Non-methane organic gases	
FE BAG 4	Bag 4 Fuel Economy	ACT-DISTANCE BAG 1	Bag 1 Actual Distance	
MFR FE	Manufacturer Fuel Economy	ACT-DISTANCE BAG 2	Bag 2 Actual Distance	
HC	Hydrocarbon for Running Loss and ORVR	ACT-DISTANCE BAG 3	Bag 3 Actual Distance	
METHANE	CH4 - Methane	ACT-DISTANCE BAG 4	Bag 4 Actual Distance	
METHANOL	CH3OH - Methanol	HC-TOTAL BAG 1	Bag 1 Total Hydrocarbon	
N2O	Nitrous Oxide	HC-TOTAL BAG 2	Bag 2 Total Hydrocarbon	
SPITBACK	Spitback Hydrocarbon in grams	HC-TOTAL BAG 3	Bag 3 Total Hydrocarbon	
AMP-HRS	Integrated Amp-hours	HC-TOTAL BAG 4	Bag 4 Total Hydrocarbon	
START-SOC	System Start State of Charge Watt-hours	WATT-HRS BAG 1	Bag 1 Watt Hours	
END-SOC	System End State of Charge Watt-hours	WATT-HRS BAG 2	Bag 2 Watt Hours	

Certification Summary Information Report

Test Group		VFMXT02.34K2	Evaporative/Refueling Family		VFMXR0185NDF
ACT-DISTANCE	Actual Distance Driven (miles)		WATT-HRS BAG 3	Bag 3 Watt Hours	
AS-VOLT	Average System Voltage		WATT-HRS BAG 4	Bag 4 Watt Hours	
CO2 BAG 1	Bag 1 Carbon Dioxide		WATT-HRS	Watt Hours	
CO2 BAG 2	Bag 2 Carbon Dioxide		HC-NM BAG 1	Bag 1 Non-methane Hydrocarbon	
CO2 BAG 3	Bag 3 Carbon Dioxide		HC-NM BAG 2	Bag 2 Non-methane Hydrocarbon	
CO2 BAG 4	Bag 4 Carbon Dioxide		HC-NM BAG 3	Bag 3 Non-methane Hydrocarbon	
NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides		HC-NM BAG 4	Bag 4 Non-methane Hydrocarbon	
NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides		N2O BAG 1	Bag 1 Nitrous Oxide	
DT-IWRR	Drive Trace Inertia Work Ratio Rating		N2O BAG 2	Bag 2 Nitrous Oxide	
DT-ASCR	Drive Trace Absolute Speed Change Rating		N2O BAG 3	Bag 3 Nitrous Oxide	
DT-EER	Drive Trace Energy Economy Rating		N2O BAG 4	Bag 4 Nitrous Oxide	
Certification Region					
CA	California + CAA Section 177 states		FA	Federal	
Exhaust Emission Standard Level					
B1	Federal Tier 2 Bin 1		HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
B2	Federal Tier 2 Bin 2		HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
B3	Federal Tier 2 Bin 3		HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
B4	Federal Tier 2 Bin 4		HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
B5	Federal Tier 2 Bin 5		HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
B6	Federal Tier 2 Bin 6		HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
B7	Federal Tier 2 Bin 7		HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
B8	Federal Tier 2 Bin 8		HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
B9	Federal Tier 2 Bin 9		HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
B10	Federal Tier 2 Bin 10		HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
B11	Federal Tier 2 Bin 11		HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)		HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)		HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2	California LEV-II LEV		L4SULEV100	California LEV-IV SULEV100	
L2OP	California LEV-II LEV Optional		L4SULEV125	California LEV-IV SULEV125	
U2	California LEV-II ULEV		L4SULEV15	California LEV-IV SULEV15	
S2	California LEV-II SULEV		L4SULEV150	California LEV-IV SULEV150	
ZEV	California ZEV		L4SULEV170	California LEV-IV SULEV170	
OT	Other		L4SULEV175	California LEV-IV SULEV175	
T1	Federal Tier 1		L4SULEV20	California LEV-IV SULEV20	
PZEV	California PZEV		L4SULEV200	California LEV-IV SULEV200	
L2LEV160	California LEV-II LEV160		L4SULEV230	California LEV-IV SULEV230	
L2ULEV125	California LEV-II ULEV125		L4SULEV25	California LEV-IV SULEV25	
L2SULEV30	California LEV-II SULEV30		L4SULEV30	California LEV-IV SULEV30	
L2LEV395	California LEV-II LEV395		L4SULEV75	California LEV-IV SULEV75	

Certification Summary Information Report

Test Group		VFMXT02.34K2	Evaporative/Refueling Family		VFMXR0185NDF
L2ULEV340	California LEV-II ULEV340		L4SULEV85	California LEV-IV SULEV85	
L2LEV630	California LEV-II LEV630		L4ULEV125	California LEV-IV ULEV125	
L2ULEV570	California LEV-II ULEV570		L4ULEV200	California LEV-IV ULEV200	
L3LEV160	California LEV-III LEV160		L4ULEV250	California LEV-IV ULEV250	
L3ULEV125	California LEV-III ULEV125		L4ULEV270	California LEV-IV ULEV270	
L3ULEV70	California LEV-III ULEV70		L4ULEV40	California LEV-IV ULEV40	
L3ULEV50	California LEV-III ULEV50		L4ULEV400	California LEV-IV ULEV400	
L3SULEV30	California LEV-III SULEV30		L4ULEV50	California LEV-IV ULEV50	
L3SULEV20	California LEV-III SULEV20		L4ULEV60	California LEV-IV ULEV60	
L3LEV395	California LEV-III LEV395		L4ULEV70	California LEV-IV ULEV70	
L3ULEV340	California LEV-III ULEV340		T4B170	Federal Tier 4 MDV Bin 170	
L3ULEV250	California LEV-III ULEV250		T4B150	Federal Tier 4 MDV Bin 150	
L3ULEV200	California LEV-III ULEV200		T4B125	Federal Tier 4 MDV Bin 125	
L3SULEV170	California LEV-III SULEV170		T4B100	Federal Tier 4 MDV Bin 100	
L3SULEV150	California LEV-III SULEV150		T4B85	Federal Tier 4 MDV Bin 85	
L3LEV630	California LEV-III LEV630		T4B75	Federal Tier 4 MDV Bin 75	
L3ULEV570	California LEV-III ULEV570		T4B70	Federal Tier 4 Bin 70	
L3ULEV400	California LEV-III ULEV400		T4B65	Federal Tier 4 Bin 65	
L3ULEV270	California LEV-III ULEV270		T4B60	Federal Tier 4 Bin 60	
L3SULEV230	California LEV-III SULEV230		T4B55	Federal Tier 4 Bin 55	
L3SULEV200	California LEV-III SULEV200		T4B50	Federal Tier 4 Bin 50	
T3B160	Federal Tier 3 Bin 160		T4B45	Federal Tier 4 Bin 45	
T3B125	Federal Tier 3 Bin 125		T4B40	Federal Tier 4 Bin 40	
T3B110	Federal Tier 3 Transitional Bin 110		T4B35	Federal Tier 4 Bin 35	
T3B85	Federal Tier 3 Transitional Bin 85		T4B30	Federal Tier 4 Bin 30	
T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover		T4B25	Federal Tier 4 Bin 25	
T3B70	Federal Tier 3 Bin 70		T4B20	Federal Tier 4 Bin 20	
T3B50	Federal Tier 3 Bin 50		T4B15	Federal Tier 4 Bin 15	
T3B30	Federal Tier 3 Bin 30		T4B10	Federal Tier 4 Bin 10	
T3B20	Federal Tier 3 Bin 20		T4B5	Federal Tier 4 Bin 5	
T3B0	Federal Tier 3 Bin 0		T4B0	Federal Tier 4 Bin 0	
HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		

Certification Summary Information Report

Test Group		VFMXT02.34K2	Evaporative/Refueling Family		VFMXR0185NDF
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 VFMXT02.34K2

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 6.05.00 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.



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 10

Description of Alternate-Fueled Vehicles

For a description of the Alternate-Fueled vehicles covered by this Test Group, refer to Section 12.00.00.00 (Description of Vehicles Covered by Certificate and Test Parameters) of this Application.



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

Common Family Parameters – Test Group: VFMXT02.34K2

Vehicle Program: Ford Explorer & Explorer Tremor

Test Group Information	
Vehicle/Engine Class	LDT2
Vehicle Fuel Category	<i>Single Fuel</i>
Operating Fuel 1	<i>Gas</i>
Engine Displacement (liters)	2.3L
SAE net HP @ RPM (98 Ron)	300 @ 5500
SAE net torque ft-lb @ RPM	310 @ 3000

Emission Control System:	
Air Aspiration Method*	<i>Turbocharged (TC)</i>
Charge Air Cooler Type* (TG-51)	<i>Air</i>
Exhaust Gas Recirculation (EGR)*	Yes
Cooled EGR *	Yes
Air injection Type (AIR)*	NA=Not applicable
After-Treatment Type *	TWC
Fuel Metering System *	Gasoline Direct (GDI)
	Sequential Fuel (SFI)
Heated oxygen sensor (HO ₂ S)*	YES
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO ₂ S)*	YES
Feedback Sensor Configuration	WR-HO ₂ S, HO ₂ S

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

* VECI label item

Exhaust Calibration	Evaporative Family	Application	Transmission	Vehicle
VCTWN3NA05, 06	VFMXR0185NDF	50S	A/T	2.3L Explorer
VCTWN3NB05, 06	VFMXR0185NDF	50S	A/T	2.3L Explorer Tremor

Reference Specifications				
Spark Plug	P2GE-12405-AA Gap: 0.7 +/- 0.05 mm			
Ignition Timing °BTDC (No SPOUT connector)	PCM Controlled			
Idle RPM	PCM Controlled			
Target (Base) in Drive (A/C OFF/A/C ON)	A/T: 700/750			Special conditions which may require idle speeds higher than base are listed below. (See Section 16.05 for descriptions of these strategies):
In Neutral (A/C OFF/A/C ON)	A/T: 700/750			

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

Emission Component	Sensed Parameter	Controlled Parameter	Justification ¹	Calibration
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ELECTRONICS – PCM²FUEL

Fuel Injector	Signal from PCM	Fuel Flow	N/A	Port injection: 139 +/- 4.45 g/min Direct injection: 697.8 g/min
Regulated Fuel Pressure	Signal from PCM	Fuel Pressure	N/A	Port injection: CLPC Direct injection: CLPC
Fuel Pump	Signal from PCM	Fuel Flow	N/A	Low Pressure: 240 L/h @ 12V & 350kPa High Pressure: 180.7 L/h @ 3250 rpm
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 62.2 mm

Fuel System Control Strategy²

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

Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO," "CAT_TMR_THRES"
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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"
<u>CRANKCASE</u> Crankcase Ventilation Oil Separator Assembly	Manifold Vacuum	Air Flow to Engine	Operates in FTP	17.0 +/- 2 L/Min @ -60 kPa 35.0 +/- 7 L/Min @ -46.7 kPa 45.0 +/- 4 L/Min @ -26.7 kPa 45.0 +/- 4 L/Min @ -13.3 kPa
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
<u>VCT Control Strategy</u>				
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_VCTLM_EXH"

Test Group: VFMXT02.34K2
 Issued: 4/27/2026
 Revised:

12.00.02.00

ENGINE COOLING

Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: 92 °C +1.8 °C / -2 °C
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1 – Justification provided for AECD systems (i.e. sense operating conditions and control the function of an emission component) and not for the individual components.

2 – See Section 16.05 for Strategy Control Systems descriptions

3 – "FTP" represents all tests required for certification

* – indicates that ending characters on some parameter names may vary

2027 MY Exhaust Emissions Parts List
Test Group: VFMXT02.34K2

Carline Name	Certification Level	Cert Code	Calibration(s)	PCM Assembly Part #	Date
EXPLORER AWD, EXPLORER RWD	Initial	VCTWN3NA0001	VCTWN3NA05	PVB5A-12A650- RB	02/09/2026
EXPLORER TREMOR AWD	Initial	VCTWN3NB0001	VCTWN3NB05	PVB5A-12A650- SB	02/09/2026
EXPLORER AWD, EXPLORER RWD	Initial	VCTWN3NA0002	VCTWN3NA06	PVB5A-12A650- RC	04/13/2026
EXPLORER TREMOR AWD	Initial	VCTWN3NB0002	VCTWN3NB06	PVB5A-12A650- SC	04/13/2026

****ALL OTHER EXHAUST EMISSION PARTS****

Engine Family: VFMXT02.34K2

2027 MY 2.3L EXPLORER

<u>Part Name</u>	<u>Part Number</u>	<u>Comments</u>
Catalyst	R1M3-5E211-BC	
EGR Cooler Assy	P2GE-9F464-AC	
EGR Temp Sensor	P2GA-9U498-AE	
EGR Valve	P2GE-9D475-AE	
Electronic Throttle Body	P2GE-9F991-AC	
Fuel Injector (DI)	P2GE-9G929-BA	
Fuel Injector (PFI)	P2GE-9F593-AA	
Fuel Pressure Sensor (High Pressure)	P2GE-9F972-AA	
Fuel Pressure Sensor (Low Pressure)	P2GE-9F972-BA (alt) P2GE-9F972-BB	
Fuel Pump High Pressure	P2GE-9D376-AA	
Heated Air/Fuel Sensor (WR-HO2S)	R1MA-9Y460-AC	
Heated Oxygen Sensor (CMS)	R1MA-9G444-AB	
Oil Separator Asy	PB5E-6A785-AG	
Turbo Charger	PB5E-9G438-BA (alt) PB5E-9G438-BB	
Fuel Pump Low Pressure	JL14-9350-AA	

2027MY TEST VEHICLE REQUIREMENTS

	Exhaust Data Vehicle	Evaporative Data Vehicles		
Test Group	SFMXT02.34K2	SFMXT02.34K2	LFMXT03.55HM	LFMXD03.56BZ
Evap Emission Family	SFMXR0185NDF	SFMXR0185NDF	LFMXR0185NDH (24.7 gal)	LFMXR0185NDJ (24.7 gal)
Displacement	2.3L	2.3L	3.5L	3.5L
Engine Code	SCTWN3NA06	RCTWN3NA01	LTTHKXNB91	LTTHURNK00
Fuel Tank Code	X1 (19.3 gal)	X1 (19.3 gal)	24.7 GAL	24.7 GAL
Exhaust Control System	TWC/DFI/SFI/WR-HO2S/HO2S/EGR/EGRC/TC/CAC	TWC/DFI/SFI/WR-HO2S/HO2S/EGR/EGRC/TC/CAC	TWC/WR-HO2S/HO2S/EGR/SFI/DFI	TWC/WR-HO2S/HO2S/EGR/SFI/DFI
Model	Explorer Tremor AWD Start/Stop Sport	Explorer AWD Start/Stop Sport	Transit AWD MPDV	Transit AWD
Equivalent Test Weight	5000	5000	6500	9000
Curb Weight	4596 lbs	459 lbs	6276 lbs	8124 lbs
GVWR	5940 lbs	5940 lbs	8550 lbs	9950 lbs
THP	17.5	17.5	24.1	37.5
DPA	f0 = 44.41	f0 = 44.41	f0 = 51.3	f0 = 66.02
	f1 = 0.0514	f1 = 0.0514	f1 = 0.4872	f1 = 0.3429
	f2 = 0.03372	f2 = 0.03372	f2 = 0.04363	f2 = 0.07930
Axle Ratio	3.58	3.73	3.73	3.73
N/V Ratio - RPM/MPH	25.1	25.7	29.4	29.4
Tires	P265/65R18	275/45R21	235/65R16C	235/65R16C
Vehicle ID No	RTW1-2.3-J-779	RTW1-2.3-J-780	LTH1-3.5-J-429	LTH1-3.5-J-435
Configuration Number	3	0	0	0
Model Year	2025	2024	2020	2020

Test Group: VFMXT02.34K2

Issued: 4/16/2026

Revised:

12.00.05.00

Vehicle Description Report

Test Group: VFMXT02.34K2

ID Number	5305608	5305607	5305621
Displacement	2.3	2.3	2.3
Cert Code	VCTWN3NA0001	VCTWN3NA0001	VCTWN3NB0001
Fuel Tank(s)	X1	X1	X1
Carline	EXPLORER AWD	EXPLORER RWD	EXPLORER TREMOR AWD
Wheel Configuration	Standard	Standard	Standard
Body Style	4 Door	4 Door	4 Door
Wheelbase	119.1	119.1	119.1
Transcode Combo	ETE	ETE	ETE
Curb Weight	4530	4269	4556
ETW	4750	4500	4750
Loaded Weight LVW	4830	4569	4856
ALVW-ETW	5250	5000	5250
Adj. Loaded Weight	5235	5049	5158
GVWR	5940	5830	5760
GCWR	10100	10000	10100
Min Axle Ratio	3.58	3.58	3.58
Max Axle Ratio	3.58	3.58	3.58
Min N/V Ratio	25.5	25.5	25.1
Max N/V Ratio	25.7	25.7	25.1
Emission Vehicle Class	LDT2	LDT2	LDT2
Drive Code	Part-time 4-Wheel Drive	2-Wheel Drive, Rear	Part-time 4-Wheel Drive
Trans Type	Automatic	Automatic	Automatic
Calibration Application	50ST	50ST	50ST
Min Tire Size	255/55R20 - 25.5	255/55R20 - 25.5	P265/65R18 - 25.1
Max Tire Size	275/45R21 - 25.7	275/45R21 - 25.7	P265/65R18 - 25.1
Alt Tire 1	255/65R18 - 25.5	255/65R18 - 25.5	
Alt Tire 2			
Alt Tire 3			
Alt Tire 4			
Alt Tire 5			
Alt Tire 6			
Alt Tire 7			
DAW Full Tank	2172	2081	2166
DAW Empty Tank	2089	1998	2083

Vehicle Description Report

Test Group: VFMXT02.34K2

ID Number	5306089	5306087	5306095
Displacement	2.3	2.3	2.3
Cert Code	VCTWN3NA0002	VCTWN3NA0002	VCTWN3NB0002
Fuel Tank(s)	X1	X1	X1
Carline	EXPLORER AWD	EXPLORER RWD	EXPLORER TREMOR AWD
Wheel Configuration	Standard	Standard	Standard
Body Style	4 Door	4 Door	4 Door
Wheelbase	119.1	119.1	119.1
Transcode Combo	ETE	ETE	ETE
Curb Weight	4530	4269	4556
ETW	4750	4500	4750
Loaded Weight LVW	4830	4569	4856
ALVW-ETW	5250	5000	5250
Adj. Loaded Weight	5235	5049	5158
GVWR	5940	5830	5760
GCWR	10100	10000	10100
Min Axle Ratio	3.58	3.58	3.58
Max Axle Ratio	3.58	3.58	3.58
Min N/V Ratio	25.5	25.5	25.1
Max N/V Ratio	25.7	25.7	25.1
Emission Vehicle Class	LDT2	LDT2	LDT2
Drive Code	Part-time 4-Wheel Drive	2-Wheel Drive, Rear	Part-time 4-Wheel Drive
Trans Type	Automatic	Automatic	Automatic
Calibration Application	50ST	50ST	50ST
Min Tire Size	255/55R20 - 25.5	255/55R20 - 25.5	P265/65R18 - 25.1
Max Tire Size	275/45R21 - 25.7	275/45R21 - 25.7	P265/65R18 - 25.1
Alt Tire 1	255/65R18 - 25.5	255/65R18 - 25.5	
Alt Tire 2			
Alt Tire 3			
Alt Tire 4			
Alt Tire 5			
Alt Tire 6			
Alt Tire 7			
DAW Full Tank	2172	2081	2166
DAW Empty Tank	2089	1998	2083



SECTION 14

Request for Certification



**Emissions Certification & Homologation
Environmental & Safety Compliance**

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

May 4, 2026

Ms. Hannah Frame
Certification Division
Office of Mobile Source Air Pollution Control
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 trucks (LDT2) contained in Ford's 50 states (Federal / CA) test group VFMXT02.34K4 and evaporative emission family VFMXR0185NDF. Tier 3 E10 regular fuel was used for exhaust and evaporative emission testing.

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

Certification FTP Standards (g/mi)	Useful Life	NMOG + NO_x	CO	PM	US06 PM	HCHO
iT4B30	150K	0.030	1.0	0.003	0.006	0.004

In addition, this test group meets the Cold NMHC Family Emission Limit (FEL) of 0.4 gm/mi as part of compliance plan to meet corporate fleet average cold NMHC standards. This test group also complies with the CH₄ standard of 0.030 g/mi and combined N₂O standard of 0.010 g/mi. This test group also meets the SFTP NMOG+NO_x Family Emission Limit (FEL) of 0.040 g/mi and CO limit of 4.2 g/mi as part of compliance plan to meet corporate fleet average SFTP standards.

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

Tier 3	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	Canister Bleed Test
Certification and In-Use Evaporative Standards	150K	0.400 g/test	0.400 g/test	0.05 g/mile	0.20 g/gallon	0.020 g/test

The spit back 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. 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 John Romig (jromig4@ford.com, 313-439-3159), if you have any questions regarding this submission.

Sincerely,

DocuSigned by:

Lawrence H. Merritt, Jr.

DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification
Homologation, & Compliance



**Emissions Certification & Homologation
Environmental & Safety Compliance**

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

May 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 truck (LDT) contained in Ford's 50 states (Federal / CA) test group VFMXT02.34K4 and evaporative emission family VFMXR0185NDF. Tier 3 E10 Regular fuel was used for exhaust and evaporative emission testing.

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 exhaust emission standards and In-Use standards applicable to this test group for vehicle offered in California are as follows:

Certification and In-Use FTP Standards (g/mi)	Useful Life	NMOG + NOx	CO	PM	HCHO
LEV-III SULEV30	150K	0.030	1.0	0.001	0.004

This test group also meets the SFTP NMOG+NOx Family Emission Limit (FEL) of 0.040 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 as follows:

LEV-III	Useful Life	Hot Soak + 2-day diurnal	Hot Soak + 3-day diurnal	Running Loss	ORVR	Canister Bleed Test
Certification and In-Use Evaporative Standards	150K	0.400 g/test	0.400 g/test	0.05 g/mi	0.20 g/gal	0.020 g/test

The fuel spit back 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.

Please contact John Romig (jromig4@ford.com, 313-439-3159), if you have any questions regarding this submission.

Sincerely,

DocuSigned by:
Lawrence H. Merritt, Jr.
DF6ED4749EAC46B...

Lawrence H. Merritt, Jr.
Manager, Emissions Certification
Homologation, & Compliance

CC: R. Uyehara, M. Desai



SECTION 15

Other Information

15.00.00.00

US EPA Fee Form

[Help and EPA Instructions](#)

* Required Field

General Information

Date: 01/07/2026

Process Code *

Submit New Fee Filing Form

Manufacturer Code *

FMX

Manufacturer Name *

FORD MOTOR COMPANY

Contact Name *

Tina Oliver

Contact Email Add

toliver@ford.com

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 *

VFMXT02.34K2

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? *

Payment Information

Amount Owed

Payment Type *

Comments

Nabil Hachem 2.3L Explorer

Tracking Information

Pay.gov Tracking ID: 27UHQA AJ

Agency Tracking ID: 77261180313

974 characters remaining.

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.

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SECTION 17

California ARB Requirements

17.00.00.00

FoMoCo

Ford Motor Company
VEHICLE EMISSION CONTROL INFORMATION

Conforms to regulations: 2027 MY

U.S. EPA: Interim Tier 4 B30 LDT2

OBD:CA OBD II **Fuel:** Gasoline

California: SULEV30 LDT

OBD:CA OBD II **Fuel:** Gasoline

TWC/SFI/DFI/WR-HO2S/HO2S/EGR/EGRC/TC/CAC

No adjustments needed.

2.3L-Group: VFMXT02.34K2 Evap: VFMXR0185NDF

▽ VW7E-9C485-**M Y X**





SECTION 18

Revisions

18.00.00.00

APPLICATION REVISIONS

VFMXT02.34K2

<u>NO.</u>	<u>DATE</u>	<u>PAGE(S)</u>	<u>DESCRIPTION</u>
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Application for Certification

Part 2