

**MOBILE SOURCE CERTIFICATION AND COMPLIANCE FEE PAYMENT FORM FOR ON-ROAD APPLICATIONS ONLY**

**CARB USE ONLY**

<b>Invoice Name</b>	MSF250262
<b>Invoice Date</b>	Sep 16, 2025

**COMPANY INFORMATION**

<b>Company Name</b>	Ford Motor Company
<b>Address</b>	1 American Road
<b>City</b>	Dearborn
<b>State</b>	Michigan
<b>Zip</b>	48126-2798
<b>Country</b>	United States
<b>Contact Name</b>	Tina Oliver
<b>Contact Telephone Number</b>	313-3238938
<b>Contact Email</b>	toliver@ford.com
<b>CARB Customer Number</b>	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	26_CBI_TFMXT03.57AT_APP	Model Year 2026	TFMXT03.57AT	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
2	26_CBI_TFMXT03.51F1_APP	Model Year 2026	TFMXT03.51F1	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
3	26_CBI_TFMXT02.72V6_APP	Model Year 2026	TFMXT02.72V6	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
4	OPCARRYOVER_26_CBI_TFMXT02.31EM_APP	Model Year 2026	TFMXT02.31EM	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 24,224.00
5	26_CBI_TFMXT03.03V7_APP	Model Year 2026	TFMXT03.03V7	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
6	26_CBI_TFMXT02.71HS_APP	Model Year 2026	TFMXT02.71HS	Light-duty vehicle test group and medium-duty vehicle test group	Base	\$ 48,447.00
7	OPCARRYOVER_26_CBI_TFMXT02.36HG_APP	Model Year 2026	TFMXT02.36HG	Light-duty vehicle test group and medium-duty vehicle test group	Partial Carry-Over	\$ 24,224.00

<b>Total Due</b>	\$ 290,683.00
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I,   
(Responsible Party Signature Here)

\_, attest that any information provided is true, accurate, and complete.

# **Application for Certification**

## **Part 1**



**FORD MOTOR COMPANY**

**APPLICATION FOR CERTIFICATION - PART 1**

**2026 Model Year**

**Test Group:** TFMXT03.51F1  
**Durability Group:** TFMXHHGVNE1A  
**Evap. Families:** TFMXR0295LDG

**Test Group Description:** 3.5 Liter V6 FHEV, LDT4

**Durability Group Description:** Hybrid Electric w/4 stroke Atkinson, Gasoline Fueled, Turbocharged, Direct Injection, Sequential Fuel Injection, Catalyst Code E (Pt/Pd/Rh)

**Applicable Standards:** Federal Exhaust – Tier 3 Bin 50  
Federal Evap – Tier 3  
California Exhaust – LEV III ULEV50  
California Evap – LEV III  
Cold NMHC FEL – 0.4 g/mi  
CH4 – 0.030 g/mi  
N2O – 0.010 g/mi  
Particulate Matter – 3 mg/mi  
SFTP FEL – 0.050 g/mi NMOG + NOx

**Carlines Covered:** F150 HEV 4WD

**Vehicles Tested:**

<b>Exhaust Emissions Vehicle: SFD1-3.5-J-057 (Config 0)</b>		<b>Evaporative Emissions Vehicle: MFD1-3.5-J-945 (Config 0)</b>	
FTP TN:	SFMX10086932	2Day TN:	MFMX10064216
HWY TN:	SFMX91005985	Linking TN:	MFMX10063823
US06 TN:	SFMX91005984	3Day TN:	MFMX10065306
SC03 TN:	SFMX10086934	RL TN:	MFMX10065305
Cold CO TN:	SFMX10086931	ORVR TN:	MFMX10064215

**Release Date: February 2<sup>nd</sup>, 2026**

**For Questions, Contact:**  
Terry Cowher, tcowher@ford.com (313) 805-6360

Test Group: TFMXT03.51F1  
Issue Date: 09/23/2025  
Revised Date:



## **Part 1 Application Index**

- § 00.00.00.00 Cover Page**
- § 02.00.00.00 Durability Group Description**
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  - 16.00.05.00 PowerTrain Control Module (PCM) - Parameters
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## **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**

03.00.00.00

## 03.00.01.00 Evaporative Family and Calibration Parameters

Evaporative Family Name: TFMXR0295LDG

2026 3.5L GTPFDI FHEV F-150

<u>Emission Component</u>	<u>Sensed Parameter</u>	<u>Controlled Parameter</u>	<u>Justification</u>	<u>Calibration Specification</u>
Capless Refueling Component Insert MU5A-9D000-NB	None	Fuel Tank Vapor	Operates in EVAP and/or ORVR	
Vapor Hose with ORVR Recirculation Orifice ML34-9101-AA	None	Vapor Recirculation	Operates in ORVR	Orifice Diameter: 2.75 mm
Fuel Limiting Vent Valve (FLVV) 9L34-9B190-CA	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP and/or ORVR	FLVV Orifice: 9.14 mm FLVV Bypass: 1.25 mm
Grade Vent Valve GV61-9B593-BB (Front)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	GVV Main Orifice: 4.0 mm
Grade Vent Valve GV61-9B593-AA (Rear)	Fuel Tank Vapor	Fuel Tank Vapor	Operates in EVAP	GVV Main Orifice: 4.0 mm Bleed Orifice: 0.7 mm
Fuel Tank Pressure Sensor KJ6A-9C052-AA KJ6A-9C052-AB (Alt.)	Fuel Tank Pressure	None	Operates in FTP	
Carbon Canister (Refueling Only) MU5A-9D653-FB	None	Fuel Vapor	Operates in ORVR	295g BWC 4.5L Total Volume
Canister Purge Valve EU5A-9G866-CE	Signal from PCM	Vacuum to canister	Operates in FTP	100 SLPM
Refueling Valve HU5A-9G712-DB	Signal from PCM	Fuel Tank Vapor	Operates in ORVR	
Tank Pressure Control Valve HU5A-9Y477-AC	Signal from PCM	Vacuum to tank	Operates in FTP	
AIS Hydrocarbon Trap GN15-9T303-AA	None	Fuel Tank Vapor	Operates in EVAP	



## **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**

<b>Manufacturer</b>	Ford Motor Company	<b>Manufacturer Code</b>	FMX
<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
<b>Certificate Number</b>	--	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	--	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	--	<b>Conditional Certificate</b>	--
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	09/23/2025 12:01:10 PM
<b>Model Year</b>	2026		

## Certification Summary Information Report

Test Group	TFMXT03.51F1	Evaporative/Refueling Family	TFMXR0295LDG
<b>Test Group Information</b>			
CSI Type	Update for Correction	Running Change Reference Number	--
GHG Exempt Status	Not Exempt		
<b>Drive Sources and Fuel(s)</b>			
<b>Drive Source #1:</b>	Combustion Engine		
	<b>Fuel</b>	<b>Basic Fuel Metering System</b>	<b>Lean Burn Strategy Indicator</b>
	Gasoline	Spark Ignition direct & ported injection	No
<b>Drive Source #2:</b>	Electric Motor		
	<b>Fuel</b>	<b>Basic Fuel Metering System</b>	<b>Lean Burn Strategy Indicator</b>
	Electricity	--	No
<b>Hybrid Indicator</b>	Yes		
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	Yes
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	No
<b>Fuel Cell Indicator</b>	No	<b>EPA Vehicle Class</b>	LDT4
<b>Federal Clean Fuel Vehicle</b>	No	<b>Federal Clean Fuel Vehicle Standard</b>	--
<b>Federal Clean Fuel Vehicle ILEV</b>	No	<b>California Partial Zero Emissions Vehicle Indicator</b>	No
<b>Durability Group Name</b>	TFMXHHGVNE1A	<b>Durability Group Equivalency Factor</b>	1.0
<b>Reduced Fee Test Group</b>	No	<b>Certification Region Code(s)</b>	FA, CA
<b>Complies with HD GHG 2b/3 regulations?</b>	No		
<b>Introduction into Commerce Date</b>	--	<b>CAP2000 Conditional Certificate?</b>	N/A
<b>Independent Commercial Importer?</b>	--	<b>Alternative Fuel Converter Certificate?</b>	--
<b>SFTP Federal Composite Compliance Identifier</b>	Tier 3	<b>SFTP Tier 2 Composite CO Option</b>	No
<b>SFTP LEV-III Composite Compliance Indicator</b>	Yes		
<b>OBD Compliance Type</b>	CARB	<b>OBD Demonstration Vehicle Test Group</b>	TFMXT02.02JF
<b>Test Group OBD Compliance Level</b>	Partial - with deficiencies	<b>Number of Test Group OBD Deficiencies</b>	2
<b>OBD Deficiencies Comments</b>	--		
<b>Mfr Test Group Comments</b>	E10 City Litmus Value: 15.2, City Litmus Threshold: 14.7, Hwy Litmus Value 20.1, Hwy Litmus Threshold: 18.4		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
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**Evaporative/Refueling Family Information**

<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	08/28/2025 12:49:32 PM
<b>Integrated ORVR?</b>	No	<b>Fuel(s)</b>	Gasoline, Electricity
<b>Multiple Fuel Storage</b>	Fuels Stored Separately		
<b>Bladder Fuel Tank?</b>	No		
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	Plastic
<b>Fill Pipe Seal Type</b>	Liquid seal		
<b>Air Intake System Vapor Storage Device?</b>	Yes	<b>Air Intake System Vapor Storage Device Description</b>	AIS HC Trap in Air Induction System
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	1 X 4.5L HA 3-port Rect.
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	295	<b>Number of Primary Canisters</b>	1
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	0
<b>Mfr Evaporative/Refueling Family Comments</b>	F150 FHEV 3.5L GTPFDI		

**Leak Family Details**

<b>Leak Family Indicator</b>	Yes		
<b>Canister Bleed Test Indicator</b>	No	<b>Applicability of Evaporative Canister Bleed Test</b>	--
<b>Evaporative Canister Bleed Test Comments</b>	--		
<b>CARB Fuel Only (Rig) Test Indicator</b>	No	<b>Applicability of CARB Fuel Only (Rig) Test</b>	--
<b>CARB Fuel Only (Rig) Test Comments</b>	--		

Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description
TFMXR0295LDG-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	132 - F150 PICKUP 4WD HEV	Federal	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes
Ford Motor Company	1 - Ford	132 - F150 PICKUP 4WD HEV	California + CAA Section 177 states	Part-time 4-Wheel Drive	Semi-Automatic	10	Yes

**Engine Description**

<b>Hybrid Type</b>	IC Engine/Electric Motor	<b>Hybrid Description</b>	-- Hybrid Electric w/4 stroke Atkinson, Gasoline Fueled, Turbocharged, Direct Injection, Sequential Fuel Injection, Catalyst Code E (Pt/Pd/Rh)
<b>Engine Type</b>	4-Stroke Spark Ignition	<b>Mfr Engine Description</b>	
<b>Engine Block Arrangement</b>	V-shaped engine	<b>Mfr Engine Block Arrangement Description</b>	--
<b>Camless Valvetrain Indicator</b>	No	<b>Oil Viscosity/Classification</b>	5W-30 / ILSAC GF-7
<b>Number of Cylinders/Rotors</b>	6	<b>Mechanically Variable Compression Ratio Indicator</b>	N

## Certification Summary Information Report

Test Group	TFMXT03.51F1	Evaporative/Refueling Family	TFMXR0295LDG	
<b>After Treatment Device(s) (ATD)</b>				
ATD Number	ATD Type	ATD Precious Metal	Substrate Material	Substrate Construction
1	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
2	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
3	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith
4	Three-way catalyst	Platinum + Palladium + Rhodium	Ceramic	Monolith
5	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith
6	Three-way catalyst	Platinum + Rhodium	Ceramic	Monolith
<b>Mfr After Treatment Device (ATD) Comments</b>	Three-way catalyst			
<b>Direct Ozone Reduction (DOR) Device</b>	Not Equipped			
<b>Mfr Emission Control Device Comments</b>	--			
<b>Engine Configuration Number 1</b>				
<b>Engine Displacement (liters)</b>	3.5	<b>Engine Rated Horsepower</b>	430	
<b>Number of Inlet Valves Per Cylinder</b>	2	<b>Number of Exhaust Valves Per Cylinder</b>	2	
<b>Air Aspiration Method</b>	Turbocharged	<b>Number of Air Aspiration Devices</b>	2	
<b>Air Aspiration Device Configuration</b>	Parallel	<b>Charge Air Cooler Type</b>	Air	
<b>Air Aspiration Drive Method(s)</b>	Mechanical			
<b>Cylinder Deactivation</b>	No			
<b>Cylinder Deactivation Description</b>	--			
<b>Variable Valve Timing</b>	Yes			
<b>Variable Valve Timing System Description</b>	TiVCT			
<b>Variable Valve Lift?</b>	No			
<b>Variable Valve Lift System Description</b>	--			
<b>Number of Knock Sensors</b>	4	<b>Number of Air/Fuel Sensors</b>	4	
<b>Air/Fuel Sensor # 1 Type</b>	Heated air fuel	<b>Air/Fuel Sensor # 1 Description</b>	--	
<b>Air/Fuel Sensor # 2 Type</b>	Heated air fuel	<b>Air/Fuel Sensor # 2 Description</b>	--	
<b>Air/Fuel Sensor # 3 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 3 Description</b>	--	
<b>Air/Fuel Sensor # 4 Type</b>	Heated oxygen	<b>Air/Fuel Sensor # 4 Description</b>	--	
<b>Mfr Air/Fuel Sensor Comments</b>	--			
<b>Exhaust Gas Recirculation</b>	Yes	<b>Cooled Exhaust Gas Recirculation</b>	Yes	
<b>EGR Type</b>	Electronic/Electric	<b>Exhaust Gas Recirculation Description if 'Other'</b>	--	
<b>Closed Loop Air Injection System</b>	No			
<b>Air Injection Type</b>	Not Applicable	<b>Air Injection Type if 'Other'</b>	--	
<b>Mfr Engine Configuration Comments</b>	3.5L F150 FHEV			

## Certification Summary Information Report

Test Group		TFMXT03.51F1				Evaporative/Refueling Family		TFMXR0295LDG		
<b>Official Test Numbers</b>										
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	SFMX10086932	SFMX91005984	SFMX10086934	SFMX10086931	SFMX91005985	20.0	228.2	0.0	286.1	1.0
Electricity	--	--	--	--	--	--	--	--	--	--
<b>SFTP LEV-III Official Test Numbers</b>										
Test Group Fuel	FTP	US06	SC03							
Electricity	--	--	--							
Gasoline	SFMX10086932	SFMX91005984	SFMX10086934							
<b>Official Charge Depleting Test Numbers</b>										
Test Group Fuel	UDDS	Highway								
Gasoline	--	--								
<b>Hybrid Electric Vehicle And Fuel Cell Information</b>										
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if Other	--							
Battery Type	Lithium Ion	Number of Battery Packs	1							
Total Voltage of Battery Packs	281	Battery Energy Capacity	5.0							
Battery Specific Energy	36.8	Battery Charger Type	On-Board							
Number of Capacitors	--	Capacitor Rating (In Farads)	--							
Mfr Capacitor Comments	--									
Hydraulic System Description	--									
Regenerative Braking Type	Electrical Regen Brake									
Regenerative Braking Source	Both	Driver Controlled Regenerative Braking	No							
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	1									
Motor/Generator Type 1	DC Permanent Magnet, brushless	Rated Motor/Generator Power	35							
Mfr Fuel Cell Description	--									
Fuel Cell On-Board H2 Storage Capacity (kg)	--	Usable H2 Fill Capacity (kg)	--							
Mfr Hybrid Electric/ Electric Vehicle Comments	--									



## Certification Summary Information Report

Test Group		TFMXT03.51F1			Evaporative/Refueling Family			TFMXR0295LDG
<b>Dynamometer Coefficients:</b>								
<b>Target Coefficients</b>				<b>Set Coefficients</b>			<b>EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients</b>	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	55.69	0.2272	0.03972	9.53	-0.11697	0.03797	22.2	
Cold CO	55.69	0.2272	0.03972	9.53	-0.11697	0.03797	N/A	
US06	55.69	0.2272	0.03972	9.53	-0.11697	0.03797	N/A	
<b>Emission Control Device Comments</b>	T3B70/ULEV70 SFTP-0.080 PM3 CB4 T3e/L3e							
<b>Manufacturer Test Vehicle Comments</b>	F150 3.5L FHEV AWD							

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
<b>Test #</b>	<b>MFMX10063823</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	02/06/2020	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	49
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	4804	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	527.31661	--
FE BAG 1 (Bag 1 Fuel Economy)	16.48995	16.48995
CO2 BAG 2 (Bag 2 Carbon Dioxide)	470.63506	--
FE BAG 2 (Bag 2 Fuel Economy)	18.46098	18.46098
METHANE (CH4 - Methane)	0.00495	--
CO (Carbon Monoxide)	0.34786	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.205247	--
DT-EER (Drive Trace Energy Economy Rating)	0.133732	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.224012	--
HCHO (Formaldehyde)	0.000182	--
MFR FE (Manufacturer Fuel Economy)	17.56144	17.56144
NOX (Nitrogen Oxide)	0.04493	--
N2O (Nitrous Oxide)	0.00166	--
HC-NM (Non-methane Hydrocarbon)	0.0128905	--
NMOG (Non-methane organic gases)	0.01414	--
PM (Particulate Matter)	0.0009	--
HC-TOTAL (Total Hydrocarbon)	0.0175	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	496	999
Optional Carbon-Related Exhaust Emissions	496	999

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
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Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	495.00813	--

**Manufacturer Test Comments**      FTP & HWY FUL NMOG = 1.04 \* NMHC<sub>r</sub>

<b>Test #</b>	MFMX10064216	<b>Test Procedure</b>	23 - 2-day evap
<b>Exhaust Test # for this Evap Test</b>	MFMX10063823	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/05/2020	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	5105	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.1644	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.1644	--

**Manufacturer Test Comments**      2 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	0.1644	0.0028	0.167	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.1644	0.0028	0.167	0.500	Pass

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
<b>Test #</b>	<b>MFMX10065306</b>	<b>Test Procedure</b>	<b>34 - Federal fuel 3-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	MFMX10063823	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/29/2020	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	5232	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>OMHCE (Organic material Hydrocarbon Equivalent)</b>	0.215	--
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0.215	--

**Manufacturer Test Comments**                      Measured NMOG

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	0.2150	0.0028	0.218	0.500	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.2150	0.0028	0.218	0.500	Pass

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
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<b>Test #</b>	MFMX10064215	<b>Test Procedure</b>	24 - Federal fuel refueling test (ORVR)
<b>Exhaust Test # for this Evap Test</b>	MFMX10063823	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	03/03/2020	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Actual Total Hydrocarbon Equivalent Measurement (with speciation)		
<b>Test Start Odometer Reading</b>	5160	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	--		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 86 (+/- 2 mph, +/- 1 sec)	<b>Road Speed Fan Usage</b>	Yes

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
OMHCE (Organic material Hydrocarbon Equivalent)	0.00688	--
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.00688	--

**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	0.007	0.003	0.01	0.20	Pass
CA	150,000 miles	California LEV-III Zero Evap (Option 2)	OMHCE	0.007	0.003	0.01	0.20	Pass

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
<b>Test #</b>	<b>MFMX10065305</b>	<b>Test Procedure</b>	<b>32 - Federal Fuel Running Loss</b>
<b>Exhaust Test # for this Evap Test</b>	MFMX10063823	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	05/29/2020	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	--	<b>Fuel Calibration Number</b>	--
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	5243	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	No	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	No		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	No

**Test Results**

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>OMHCE (Organic material Hydrocarbon Equivalent)</b>	0	--
<b>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</b>	0	--

**Manufacturer Test Comments**                      Measured NMOG

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

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG									
<b>Emission Data Vehicle Information</b>												
<b>Vehicle ID / Configuration</b>	SFD1-3.5-J-057 / 0	<b>Manufacturer Vehicle Configuration Number</b>	0									
<b>Original Test Group Name</b>	SFMXT03.51F1	<b>Original Evaporative/Refueling Family</b>	SFMXR0295LDG									
<b>Original Test Vehicle Model Year</b>	2025											
<b>Vehicle Model</b>												
<b>Represented Test Vehicle Make</b>	Ford	<b>Represented Test Vehicle Model</b>	F150 HEV 4WD									
<b>Leak Family Details</b>												
<b>Leak Family Identifier</b>	001	<b>Leak Family Name</b>	SFMXR0295LDG-001									
<b>Drive Sources and Fuel System Details</b>												
<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>Electric Motor</td> <td>Electricity</td> </tr> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table>				Drive Source and Fuel#	Drive Source	Fuel	1	Electric Motor	Electricity	2	Combustion Engine	Gasoline
Drive Source and Fuel#	Drive Source	Fuel										
1	Electric Motor	Electricity										
2	Combustion Engine	Gasoline										
<b>Hybrid Indicator</b>	Yes											
<b>Multiple Fuel Storage</b>	--	<b>Multiple Fuel Combustion</b>	--									
<b>Fuel Cell Indicator</b>	No	<b>Rechargeable Energy Storage System Indicator</b>	Yes									
<b>Rechargeable Energy Storage System</b>	Battery(s)	<b>Rechargeable Energy Storage System, if 'Other'</b>	--									
<b>Off-board charge Capable Indicator</b>	No											
<b>Odometer Correction -- Initial</b>	0	<b>Odometer Correction Factor</b>	1.03									
<b>Odometer Correction Sign</b>	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles											
<b>Odometer Correction Units</b>	Miles											
<b>Engine Code</b>	STFDCNNA01	<b>Rated Horsepower</b>	400									
<b>Displacement (liters)</b>	3.5											
<b>Air Aspiration Method</b>	Turbocharged	<b>Air Aspiration Method, if 'Other'</b>										
<b>Number of Air Aspiration Devices</b>	2	<b>Air Aspiration Device Configuration</b>	Parallel									
<b>Charge Air Cooler Type</b>	Air	<b>Drive Mode While Testing</b>	4-Wheel Drive									
<b>Shift Indicator Light Usage</b>	Not equipped	<b>Aged Emission Components</b>	150,000 (mi)									
<b>Curb Weight (lbs)</b>	5930	<b>Equivalent Test Weight (pounds)</b>	6000									
<b>GVWR (lbs)</b>	7400	<b>N/V Ratio</b>	25.3									
<b>Axle Ratio</b>	3.73											
<b>Transmission Type</b>	Semi-Automatic	<b># of Transmission Gears</b>	10									
<b>Transmission Lockup</b>	Yes	<b>Creeper Gear</b>	No									

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
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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)	
<b>City/Highway/Evap</b>	36.08	0.58	0.03296	-23.95	0.378	0.02999	19.7
<b>Cold CO</b>	36.08	0.58	0.03296	-23.95	0.378	0.02999	N/A
<b>US06</b>	36.08	0.58	0.03296	-23.95	0.378	0.02999	N/A

**Emission Control Device Comments**      --

**Manufacturer Test Vehicle Comments**      --

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
<b>Test #</b>	<b>SFMX10086931</b>	<b>Test Procedure</b>	<b>11 - Cold CO</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)
<b>Test Date</b>	06/30/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	375-B	<b>Fuel Calibration Number</b>	54
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4011	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	760.22096	--
FE BAG 1 (Bag 1 Fuel Economy)	11.30785	11.30785
CO2 BAG 2 (Bag 2 Carbon Dioxide)	538.40592	--
FE BAG 2 (Bag 2 Fuel Economy)	16.09949	16.09949
CO2 BAG 3 (Bag 3 Carbon Dioxide)	512.91203	--
FE BAG 3 (Bag 3 Fuel Economy)	16.88469	16.88469
METHANE (CH4 - Methane)	0.01801	--
CO (Carbon Monoxide)	0.61134	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.2588	--
DT-EER (Drive Trace Energy Economy Rating)	-0.0183	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.8996	--
MFR FE (Manufacturer Fuel Economy)	15	15
NOX (Nitrogen Oxide)	0.038132	--
N2O (Nitrous Oxide)	0.01	--
HC-NM (Non-methane Hydrocarbon)	0.1049	--
NMOG (Non-methane organic gases)	0.109134	--
HC-TOTAL (Total Hydrocarbon)	0.12416	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	578	--

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
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<b>Test Result Name</b>	<b>Unrounded Test Result</b>	<b>Verify Calculated CO2</b>
Carbon dioxide	577.30936	--

**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 3 Bin 50	CO	0.61	--	--	--	--	--	0.6	12.5	Pass
Fed	120,000 miles	Federal Tier 3 Bin 50	HC-NM	0.10	--	--	--	--	--	0.1	0.4	Pass
CA	50,000 miles	California LEV-III ULEV50	CO	0.61	--	--	--	--	--	0.6	12.5	Pass

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFM XR0295LDG
<b>Test #</b>	<b>SFMX10086932</b>	<b>Test Procedure</b>	<b>21 - Federal fuel 2-day exhaust (w/can load)</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	06/27/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	88
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	APTL		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	3945	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	481.03183	--
FE BAG 1 (Bag 1 Fuel Economy)	18.11638	18.11638
CO2 BAG 2 (Bag 2 Carbon Dioxide)	445.81934	--
FE BAG 2 (Bag 2 Fuel Economy)	19.55757	19.55757
METHANE (CH4 - Methane)	0.00555	--
CO (Carbon Monoxide)	0.13582	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-0.35	--
DT-EER (Drive Trace Energy Economy Rating)	-0.18	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-0.14	--
HCHO (Formaldehyde)	0.000239	--
MFR FE (Manufacturer Fuel Economy)	18.9	18.9
NOX (Nitrogen Oxide)	0.010249	--
N2O (Nitrous Oxide)	0.00016	--
HC-NM (Non-methane Hydrocarbon)	0.0071	--
NMOG (Non-methane organic gases)	0.007368	--
PM (Particulate Matter)	0.001039	--
HC-TOTAL (Total Hydrocarbon)	0.01228	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	461	999

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.51F1			Evaporative/Refueling Family					TFMXR0295LDG		
		<b>Test Result Name</b>			<b>Unrounded Test Result</b>			<b>Verify Calculated CO2</b>				
		Carbon dioxide			460.96071			--				
<b>Manufacturer Test Comments</b>		--										
Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CO	0.14	--	--	--	--	--	0.1	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CO-COMP	0.09	--	--	--	--	--	0.1	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	METHANE	0.0056	--	--	--	--	--	0.006	0.030	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	N2O	0.0002	--	--	--	--	--	0.000	0.010	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0074	--	1.1	--	--	--	0.007	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0176	--	--	--	--	--	0.018	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX-COMP	0.0223	--	--	--	--	--	0.022	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0102	--	--	--	--	--	0.010	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	PM	0.0010	--	--	--	--	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-III ULEV50	CO	0.14	--	--	--	--	--	0.1	1.7	Pass
CA	150,000 miles	California LEV-III ULEV50	CO-COMP	0.09	--	--	--	--	--	0.1	4.2	Pass
CA	150,000 miles	California LEV-III ULEV50	HCHO	0.0002	--	--	--	--	--	0.000	0.004	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0074	--	1.1	--	--	--	0.007	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0176	--	--	--	--	--	0.018	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX-COMP	0.0223	--	--	--	--	--	0.022	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0102	--	--	--	--	--	0.010	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	PM	0.0010	--	--	--	--	--	0.001	0.003	Pass

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

## Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
<b>Test #</b>	<b>SFMX91005985</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	07/31/2024	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	28637	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4117	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.001329	--
CO (Carbon Monoxide)	0.0092313	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.3275576	--
DT-EER (Drive Trace Energy Economy Rating)	0.0166088	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	6.3118238	--
MFR FE (Manufacturer Fuel Economy)	26.785244	--
NOX (Nitrogen Oxide)	0.0022687	--
N2O (Nitrous Oxide)	0	--
HC-NM (Non-methane Hydrocarbon)	0.0000405	--
NMOG (Non-methane organic gases)	0.0000417	--
HC-TOTAL (Total Hydrocarbon)	0.0013509	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	9999.9999999	999

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	323.725647	--

Manufacturer Test Comments None

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
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Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	RAF	NMOG/NM HC Ratio	Diesel Adjustment Factor	Add DF	Mult DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Bin 50	CREE	999	--	--	--	0	--	999	--	--
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG	0.0000	--	1.03	--	--	--	0.000	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NMOG+NOX	0.0023	--	--	--	--	--	0.002	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 50	NOX	0.0023	--	--	--	--	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG	0.0000	--	1.03	--	--	--	0.000	999.999	Pass
CA	150,000 miles	California LEV-III ULEV50	NMOG+NOX	0.0023	--	--	--	--	--	0.002	0.050	Pass
CA	150,000 miles	California LEV-III ULEV50	NOX	0.0023	--	--	--	--	--	0.002	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

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
<b>Test #</b>	<b>SFMX91005984</b>	<b>Test Procedure</b>	<b>90 - US06</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	07/31/2024	<b>Fuel</b>	N/A
<b>Fuel Batch ID</b>	28637	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined
<b>Verify Test Lab ID</b>	--		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	4142	<b>Odometer Units</b>	M
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--
<b>State of Charge Delta</b>	Yes		
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
CO2 BAG 1 (Bag 1 Carbon Dioxide)	737.4973755	--
FE BAG 1 (Bag 1 Fuel Economy)	999	--
CO2 BAG 2 (Bag 2 Carbon Dioxide)	402.1809082	--
FE BAG 2 (Bag 2 Fuel Economy)	999	--
METHANE (CH4 - Methane)	0.0094267	--
CO (Carbon Monoxide)	0.1116491	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.5176582	--
DT-EER (Drive Trace Energy Economy Rating)	-1.3996508	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.6785178	--
MFR FE (Manufacturer Fuel Economy)	999	--
NOX (Nitrogen Oxide)	0.033608	--
N2O (Nitrous Oxide)	0.0105971	--
HC-NM (Non-methane Hydrocarbon)	0.0158862	--
NMOG (Non-methane organic gases)	0.0163628	--
HC-TOTAL (Total Hydrocarbon)	0.0251809	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	477.2978516	--

## Manufacturer Test Comments

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

**Certification Summary Information Report**

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG																																	
<b>Test #</b>	<b>SFMX10086934</b>	<b>Test Procedure</b>	<b>95 - SC03</b>																																	
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)																																	
<b>Test Date</b>	06/28/2024	<b>Fuel</b>	N/A																																	
<b>Fuel Batch ID</b>	373-B	<b>Fuel Calibration Number</b>	88																																	
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	Mfr. Determined																																	
<b>Verify Test Lab ID</b>	APTL																																			
<b>E10 Evaporative Test Measurement Method</b>	--																																			
<b>Test Start Odometer Reading</b>	3996	<b>Odometer Units</b>	M																																	
<b>4WD Test Dyno</b>	Yes	<b>Diesel Adjustment Factor Usage</b>	--																																	
<b>State of Charge Delta</b>	Yes																																			
<b>Drive Cycle Speed Tolerance Criteria</b>	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	<b>Road Speed Fan Usage</b>	Yes																																	
<b>Test Results</b>																																				
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<b>Manufacturer Test Comments</b>	--																																			

## Certification Summary Information Report

Test Group	TFMXT03.51F1	Evaporative/Refueling Family	TFMXR0295LDG
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>373-B</b>	<b>Fuel Calibration Number</b>	<b>88</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	06/25/2024
<b>Fuel Batch Calibration Effective Date</b>	06/25/2024	<b>Fuel Batch Calibration Ineffective Date</b>	12/31/2100
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.752
<b>Fuel Ethanol Volume Percent (%)</b>	9.8	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17872
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>28637</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	08/26/2021
<b>Fuel Batch Calibration Effective Date</b>	08/26/2021	<b>Fuel Batch Calibration Ineffective Date</b>	--
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.75
<b>Fuel Ethanol Volume Percent (%)</b>	9.6	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17894
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.825	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>373-B</b>	<b>Fuel Calibration Number</b>	<b>49</b>
<b>Test Fuel Type</b>	48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	01/30/2020
<b>Fuel Batch Calibration Effective Date</b>	01/30/2020	<b>Fuel Batch Calibration Ineffective Date</b>	12/31/2100
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.751
<b>Fuel Ethanol Volume Percent (%)</b>	9.5	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17945
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.829	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>375-B</b>	<b>Fuel Calibration Number</b>	<b>54</b>
<b>Test Fuel Type</b>	28 - Cold CO E10 Regular Gasoline (Tier 3)	<b>Fuel Batch Calibration Date</b>	06/28/2024
<b>Fuel Batch Calibration Effective Date</b>	06/28/2024	<b>Fuel Batch Calibration Ineffective Date</b>	12/31/2100

## Certification Summary Information Report

<b>Test Group</b>	<b>TFMXT03.51F1</b>	<b>Evaporative/Refueling Family</b>	<b>TFMXR0295LDG</b>
<b>Carbon Weight Fraction NMHC</b>	--	<b>Carbon Weight Fraction HC</b>	--
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.743
<b>Fuel Ethanol Volume Percent (%)</b>	9.5	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17918
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	--	<b>Fuel Carbon Mass Fraction (E10)</b>	--
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.828	<b>Weight Fraction CO2</b>	--

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG
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#### Consolidated List of Standards

**Exhaust Standards**

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	Federal Tier 3 Bin 50
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	Federal fuel 2-day exhaust (w/can load)

Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	--	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2
150,000 miles	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	--	0.050
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.003

<b>Cert Region</b>	Federal	<b>Cert/In-Use Code</b>	Both
<b>Vehicle Class</b>	LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)	<b>Standard Level</b>	Federal Tier 3 Bin 50
<b>Fuel</b>	Gasoline	<b>Test Procedure</b>	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

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.51F1			<b>Evaporative/Refueling Family</b>			TFMXR0295LDG		
<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			HWFE		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CREE	--	--	--	--	--	--	0	999.999	
150,000 miles	NMOG	--	--	1.03	--	--	--	--	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	
150,000 miles	OPT-CREE	--	--	--	--	--	--	0	999.999	

<b>Cert Region</b>		Federal			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			Federal Tier 3 Bin 50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			US06		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	PM	--	--	--	--	--	--	--	0.006	

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

### Certification Summary Information Report

<b>Test Group</b>		TFMXT03.51F1			<b>Evaporative/Refueling Family</b>			TFMXR0295LDG		
<b>Cert Region</b>		California + CAA Section 177 states			<b>Cert/In-Use Code</b>			Both		
<b>Vehicle Class</b>		LDT4 (ALVW > 5750, LVW 0-3750, GVW > 6000)			<b>Standard Level</b>			California LEV-III ULEV50		
<b>Fuel</b>		Gasoline			<b>Test Procedure</b>			Federal fuel 2-day exhaust (w/can load)		
<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>RAF</b>	<b>NMOG / NMHC</b>	<b>Upward Diesel Adjustment Factor</b>	<b>Downward Diesel Adjustment Factor</b>	<b>Mult DF</b>	<b>Add DF</b>	<b>Std</b>	
150,000 miles	CO	--	--	--	--	--	--	--	1.7	
150,000 miles	CO-COMP	--	--	--	--	--	--	--	4.2	
150,000 miles	HCHO	--	--	--	--	--	--	--	0.004	
150,000 miles	NMOG	--	--	1.1	--	--	--	--	999.999	
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	0.050	
150,000 miles	NMOG+NOX-COMP	--	--	--	--	--	--	--	0.050	
150,000 miles	NOX	--	--	--	--	--	--	--	999.999	
150,000 miles	PM	--	--	--	--	--	--	--	0.003	

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

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

**Evaporative/Refueling Standards**

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG		
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.20	0.003
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0028
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0.000
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel refueling test (ORVR)				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	OMHCE	--	0.20	0.003
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	Federal		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>	Federal Tier 3 Evap		
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.500	0.0028

### Certification Summary Information Report

<b>Test Group</b>	TFMXT03.51F1	<b>Evaporative/Refueling Family</b>	TFMXR0295LDG		
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal Fuel Running Loss				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	OMHCE	--	0.05	0.000
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	Federal fuel 3-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	OMHCE	--	0.500	0.0028
<b>Evaporative/Refueling Family</b>	TFMXR0295LDG	<b>Cert Region</b>	California + CAA Section 177 states California LEV-III Zero Evap (Option 2)		
<b>Cert/In-Use Code</b>	Both	<b>Standard Level</b>			
<b>Test Procedure</b>	2-day evap				
<b>Fuel</b>	<b>Useful Life</b>	<b>Emission Name</b>	<b>Rounded Result</b>	<b>Std</b>	<b>Add DF</b>
Gasoline	150,000 miles	OMHCE	--	0.500	0.0028

## Certification Summary Information Report

Test Group	TFMXT03.51F1	Evaporative/Refueling Family	TFMXR0295LDG
<b>Glossary</b>			
<b>Useful Life</b>			
4	4,000 miles	120	120,000 miles
50	50,000 miles	150	150,000 miles
100	100,000 miles		
<b>Emission Name</b>			
HC-TOTAL	Total Hydrocarbon	AS-VOLT	Average System Voltage
CO	Carbon Monoxide	CO2 BAG 1	Bag 1 Carbon Dioxide
CO2	Carbon dioxide	CO2 BAG 2	Bag 2 Carbon Dioxide
CREE	Carbon-Related Exhaust Emissions	CO2 BAG 3	Bag 3 Carbon Dioxide
OPT-CREE	Optional Carbon-Related Exhaust Emissions	CO2 BAG 4	Bag 4 Carbon Dioxide
NOX	Nitrogen Oxide	NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides
PM	Particulate Matter	NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides
PM-COMP	SFTP Composite Particulate Matter	DT-IWRR	Drive Trace Inertia Work Ratio Rating
HC-NM	Non-methane Hydrocarbon	DT-ASCR	Drive Trace Absolute Speed Change Rating
OMHCE	Organic material Hydrocarbon Equivalent	DT-EER	Drive Trace Energy Economy Rating
OMNMHCE	Organic material non-methane HC equivalent	COMB-CREE	Combined Carbon-Related Exhaust Emissions
NMOG	Non-methane organic gases	COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions
HCHO	Formaldehyde	HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only
H3C2HO	Acetaldehyde	METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03	N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides	LEAK-DIA	Effective Leak Diameter (inches)
CO-COMP	SFTP Composite Carbon Monoxide	LEAK-GAS CAP	Gas Cap Leakage (cc/min)
ETHANOL	C2H5OH - Ethanol	CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only
FE BAG 1	Bag 1 Fuel Economy	KW-HRS	Integrated DC KW-HRS
FE BAG 2	Bag 2 Fuel Economy	CH4 BAG 1	Bag 1 Methane
FE BAG 3	Bag 3 Fuel Economy	CH4 BAG 2	Bag 2 Methane
FE BAG 4	Bag 4 Fuel Economy	CH4 BAG 3	Bag 3 Methane
MFR FE	Manufacturer Fuel Economy	CH4 BAG 4	Bag 4 Methane
HC	Hydrocarbon for Running Loss and ORVR	CO BAG 1	Bag 1 Carbon Monoxide
METHANE	CH4 - Methane	CO BAG 2	Bag 2 Carbon Monoxide
METHANOL	CH3OH - Methanol	CO BAG 3	Bag 3 Carbon Monoxide
N2O	Nitrous Oxide	CO BAG 4	Bag 4 Carbon Monoxide
SPITBACK	Spitback Hydrocarbon in grams	NMOG BAG 1	Bag 1 Non-methane organic gases
AMP-HRS	Integrated Amp-hours	NMOG BAG 2	Bag 2 Non-methane organic gases
START-SOC	System Start State of Charge Watt-hours	NMOG BAG 3	Bag 3 Non-methane organic gases
END-SOC	System End State of Charge Watt-hours	NMOG BAG 4	Bag 4 Non-methane organic gases
ACT-DISTANCE	Actual Distance Driven (miles)		
<b>Certification Region</b>			

## Certification Summary Information Report

Test Group	TFMXT03.51F1	Evaporative/Refueling Family		TFMXR0295LDG
CA	California + CAA Section 177 states	FA	Federal	
<b>Exhaust Emission Standard Level</b>				
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160	
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125	
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110	
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85	
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover	
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70	
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50	
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30	
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20	
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0	
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395	
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340	
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250	
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200	
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170	
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150	
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0	
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630	
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570	
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400	
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270	
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230	
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200	
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0	
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100	
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125	
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15	
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150	
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170	
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175	
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20	
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200	
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230	
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25	
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30	
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75	
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85	
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125	

## Certification Summary Information Report

Test Group		TFMXT03.51F1	Evaporative/Refueling Family	TFMXR0295LDG
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70
<b>Transmission Type Code</b>				
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)	
<b>Drive System Code</b>				
4	4-Wheel Drive	P	Part-time 4-Wheel Drive	
F	2-Wheel Drive, Front	A	All Wheel Drive	
R	2-Wheel Drive, Rear			
<b>Additional Terms and Acronyms</b>				
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 TFMXT03.51F1

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

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

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

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

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

Please explain any differences.

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

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

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



## **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: TFMXT03.51F1**

**Vehicle Program:**

<u>Test Group Information</u>	
Vehicle/Engine Class	LDT4
Vehicle Fuel Category	<i>Hybrid</i>
Operating Fuel 1	<i>Gas</i>
Engine Displacement (liters)	3.5L Full Hybrid
Total System HP @ RPM (91 Ron)	430 hp @ 6000 RPM
Total System Torque lb-ft @ RPM (91 Ron)	570 lb-ft @ 3000 RPM

<u>Emission Control System:</u>	
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 <sub>2</sub> S)*	YES
Heated Air/Fuel Sensor or WR oxygen sensor (AFS/WR-HO <sub>2</sub> S)*	YES
Feedback Sensor Configuration	WR-HO <sub>2</sub> S, HO <sub>2</sub> 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

## Calibration Descriptions – TFMXT03.51F1

Cert Code / Calibration	Evaporative Family	Application	Transmission	Vehicle
TTFDCNNJ0002/TTFDCNNA05	TFMXR0295LDG	50S	10R80MHT	3.5L F150 FHEV
TTFDCNNK0002/TTFDCNNA05				
TTFDCNNL0002/TTFDCNNA05				
TTFDCNNN0002/TTFDCNNA05				
TTFDCNNP0002/TTFDCNNA05				
TTFDCNNJ0003/TTFDCNNA06				
TTFDCNNK0003/TTFDCNNA06				
TTFDCNNL0003/TTFDCNNA06				
TTFDCNNN0003/TTFDCNNA06				
TTFDCNNP0003/TTFDCNNA06				

Reference Specifications				
Spark Plug	DYFS-12YPT			
	Gap: 0.8 +/- 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)	PCM Controlled			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)	850/850			
	1000			

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	N	Achieve/maintain light off
Low engine coolant temperature	N	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	N	Avoid stalling or no-start
High Alternator load	N	Preserve battery life and avoid low voltage
High-speed fan operation	N	For engine and A/C condenser cooling
Extended neutral idle time	N	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	Y	Increase engine speed to improve cabin heating or cooling
Heated Windshield	N	Maintain charging margin
ETC Failure	N	Electronic Throttle Failure Min RPM
A/C Adder (50RPM)	N	NVH Improvement
High auxiliary loads	Y	Belt tensioner durability on BiSG and HV Motor cooling
Eco Idle Feature (Park/Neutral)	Y	Raise idle speed to reduce fuel consumption and engine off time during Park/Neutral state

Emission Component	Sensed Parameter	Controlled Parameter	Justification <sup>1</sup>	Calibration
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### ELECTRONICS – PCM<sup>2</sup>

#### FUEL

Fuel Injector (DI)	Signal from PCM	Fuel Flow	N/A	Static Flow Rate: 821 g/min
Fuel Injector (PFI)	Signal from PCN	Fuel Flow	N/A	Static Flow Rate: 128 g/min
Fuel Pressure (DI)	Signal from PCM	Fuel Pressure	N/A	250 bar (25 MPa)
Regulated Fuel Pressure (PFI)	Signal from PCM	Fuel Pressure	N/A	380-500 kpa
Fuel Pump (DI)	Signal from PCM	Fuel Flow	N/A	DI pump: Up to 1.3 cc/rev for 3 lobe, 5.5mm lift (theoretical delivery volume)
Fuel Pump (PFI)	Signal from PCM	Fuel Flow	N/A	169 lph @ 12.0V/520kpa
Torque Based Electronic Throttle Control	Signal from PCM	None	Operates in FTP	Throttle Diameter: 68 mm

#### Fuel System Control Strategy<sup>2</sup>

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	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.
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12.00.02.00

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Revised:

			demand	Otherwise, open loop target, "OL_LAM_DES" is 1.00 (stoich). * and the entry conditions in function "FN311P".
Open Loop Delay Timers	Time and Gear	Delay open loop fuel	Allows time for downshift; limit enrichment to unusual conditions	See Section 16.00.05.00 for delay time calibration "FN1311P" and the maximum open-loop count-up time, "ol_tm_pwr_dly_a_m"
Open Loop Enrichment Catalyst Protection	Inferred Catalyst Temperature	Air-Fuel Ratio (LAMBSE)	Protection against damage	See Section 16.00.05.00 for inferred catalyst temperature to trigger enrichment, either "CAT_MAX" or "CAT_MAX_LO" and "CAT_MAX_HI" and the time delay on CAT_MAX_LO," "CAT_TMR_THRES"

Emission Component	Sensed Parameter	Controlled Parameter	Justification <sup>1</sup>	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 <sub>2</sub> 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	EV#:298 2.55-3.75 SCFM @ 3" Hg 2.00-3.20 SCFM @ 8" Hg 0.85-1.65 SCFM @ 15" Hg
Crankcase Ventilation Oil Separator Assembly – Not Heated	Ambient Temp Battery Voltage	PCV Heating	Vehicle Safety	N/A

Emission Component	Sensed Parameter	Controlled Parameter	Justification <sup>1</sup>	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 "hdcfg_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	See Section 16.00.05.00 for Contained within the Best FE, Best Drv noted above and the Optimal Performance

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Cam Actuator Limitation for ACT Effects	Air Charge Temperature	Cam Phase Timing	demand Protection against damage or accident by maintaining combustion stability	"FN_HDFX_OP_IVO" and "FN_HDFX_OP_EVC" calibrations. See Section 16.00.05.00 for "FNHDFX_VCTLIM_EXH"
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**ENGINE COOLING**

Thermostat	Coolant Temperature	Coolant Flow	Engine Protection	Start to Open: 90.6 °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

**2026MY 3.5L F150 FHEV  
Exhaust Emissions Parts List TFMXT03.51F1**

Vehicle	Certification Level	Certification Code	Calibration	ECM -12A650-	HPCM1 <sup>1</sup> -7P120-	BSCM <sup>2</sup> -2C219-	BECM <sup>4</sup> -10B687-	Date
F150	INI	TTFDCNNJ0002 TTFDCNNK0002 TTFDCNNL0002 TTFDCNNN0002 TTFDCNNP0002	TTFDCNNA05	PTL3A-AAC	PTL38-MB	TL34-AD	ML38-AH	08/07/2025
F150	INI	TTFDCNNJ0003 TTFDCNNK0003 TTFDCNNL0003 TTFDCNNN0003 TTFDCNNP0003	TTFDCNNA06	PTL3A-AAD	PTL38-MB	TL34-AD	ML38-AH	09/08/2025

----- All Other Exhaust Emission Parts -----

<b>Part Name</b>	<b>Part Number</b>
Catalyst	RL34-5E214-DF
Catalyst	RL34-5G218-DF
Battery Pack	ML38-10B759-AM
Charge Air Cooler	ML34-6K775-CA
PCV	KR3E-6A666-BA
Camshaft Variable Timing Solenoid	HL3E-6B297-DD
Crankshaft Position Sensor	RL3A-6C315-AB
Cylinder Head Temperature Sensor	P2GA-6G004-AC
Turbo Charger	RL3E-6C879-BD RL3E-6K682-BD
EGR Module Asy	RL3E-9Y456-BB RL3E-9Y456-CA (Alt.)
EGR Cooler	ML3E-9R442-AF
EGR Cold Tube with Orifice	ML3E-9E470-AD
EGR Temp Sensor	KA1A-9U498-AB
Fuel Pump (High Pressure):	ML3E-9D376-AA
PFI Fuel Injectors (6):	ML3E-9F593-BA
DI Fuel Injectors (6):	ML3E-9G929-AA
Electronic Throttle Body	HL3E-9F991-AA
Fuel Pressure Sensor (Low Pressure):	P2GE-9F972-BA P2GE-9F972-BB (Alt.)
Fuel Pressure Sensor (High Pressure):	K2GE-9F972-BA K2GE-9F972-AA (Alt.)
Fuel Pump (Low Pressure):	ML34-9350-SA
Camshaft Position Sensor	BL31-12K073-BC RL3A-12K073-AB (Alt.)
Intake Air Temperature Sensor (IAT)	DS7A-12A697-AA
UEGO	RL3A-9Y460-BC RL3A-9Y460-CC
CMS	RL3A-9G444-EC RL3A-9G444-HA

1. HPCM: Hybrid Powertrain Control Module Assembly
2. BSCM: Brake System Control Module Assembly
3. BSCM CAL: Brake System Control Module Calibration
4. BECM: Battery Electric Control Module Assembly

**SECTION 12.00.05.00 -- 2026 TEST VEHICLE REQUIREMENTS**

<b>Selection</b>	<b><u>CAP 2000 Exhaust Data Vehicle</u></b>	<b><u>Evaporative Emission Data Vehicle</u></b>
Test Group	SFMXT03.51F1	PFMXT03.51F1
Evaporative Emission Family	SFMXR0295LDG	PFMXR0295LDG
Engine Displacement	3.5L Hybrid	3.5L Hybrid
Engine Code	STFDCNNA01	MTFDCNNB00
Catalyst Code	See Section 2.	See Section 2.
Exhaust Control System	TWC/WR-HO2S/HO2S/TC/CAC/EGR/EGRC/DFI/SFI	TWC/WR-HO2S/HO2S/TC/CAC/EGR/EGRC/DFI/SFI
Model	F150	F150
Transmission	10R80 MHT	10R80 MHT
Shift Schedule	NA	NA
Equivalent Test Weight	6000	6000
THP	19.7	22.2
Target	F0: 36.08, F1: 0.58, F2: 0.03296	F0: 55.69, F1: 0.2272, F2: 0.03972
Dyno Coeff	A: -23.95, B: 0.378, C: 0.02999 (AWD Dyno)	A: 9.53, B: -0.11697, C: 0.03797 (AWD Dyno) A: 39.35, B: -0.07513, C: 0.03 (2WD Dyno All EVAP)
Axle Ratio	3.73	3.73
N/V Ratio (rpm/mph)	25.3	25.3
Tires	LT265/70/R18	LT265/70/R18
Drive Mode Used	Sport	Sport
Actual Test Vehicle	Tailpipe	Evaporative Emission
Model Year	2025	2021
Engine Family	SFMXT03.51F1	MFMXT03.51F1
Vehicle ID Number	SFD1-3.5-J-057	MFD1-3.5-J-945
Configuration	00	00
Test Performed	City, Hwy, US06, SC03 & Cold CO	2 Day EVAP, 3 Day EVAP ERL, ORVR
Fan/Location	RSM	RSM

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### Vehicle Description Report

Test Group: TFMXT03.51F1

ID Number	5292879	5292949	5292889	5292959	5292899	5292969	5292900	5292970
Displacement	3.5	3.5	3.5	3.5	3.5	3.5	3.5	3.5
Cert Code	TTFDCNNJ0002	TTFDCNNJ0003	TTFDCNNK0002	TTFDCNNK0003	TTFDCNNL0002	TTFDCNNL0003	TTFDCNNN0002	TTFDCNNN0003
Fuel Tank(s)	F8	F8	F8	F8	F8	F8	F8	F8
Carline	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV
Wheel Configuration	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
Body Style	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew	Super Crew
Wheelbase	145.0	145.0	145.0	145.0	145.0	145.0	157.0	157.0
Transcode Combo	GCC	GCC	GCC	GCC	GCC	GCC	GCC	GCC
Curb Weight	5869	5869	5869	5869	5869	5869	5883	5883
ETW	6000	6000	6000	6000	6000	6000	6000	6000
Loaded Weight LVW	6169	6169	6169	6169	6169	6169	6183	6183
ALVW-ETW	6500	6500	6500	6500	6500	6500	6500	6500
Adj. Loaded Weight	6634	6634	6634	6634	6634	6634	6642	6642
GVWR	7400	7400	7400	7400	7400	7400	7400	7400
GCWR	17100	17100	17100	17100	17100	17100	18400	18400
Min Axle Ratio	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
Max Axle Ratio	3.73	3.73	3.73	3.73	3.73	3.73	3.73	3.73
Min N/V Ratio	25.3	25.3	25.0	25.0	25.1	25.1	25.3	25.3
Max N/V Ratio	26.1	26.1	25.0	25.0	25.1	25.1	26.1	26.1
Emission Vehicle Class	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4	LDT4
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST	50ST	50ST	50ST	50ST	50ST	50ST
Min Tire Size	265/70R17 - 26.1	265/70R17 - 26.1	275/60R20 - 25	275/60R20 - 25	275/50R22 - 25.1	275/50R22 - 25.1	265/70R17 - 26.1	265/70R17 - 26.1
Max Tire Size	LT265/70R18 - 25.3	LT265/70R18 - 25.3	275/60R20 - 25	275/60R20 - 25	275/50R22 - 25.1	275/50R22 - 25.1	LT265/70R18 - 25.3	LT265/70R18 - 25.3
Alt Tire 1	275/65R18 - 25.7	275/65R18 - 25.7					LT265/70R17 - 26.1	LT265/70R17 - 26.1
Alt Tire 2	LT265/70R17 - 26.1	LT265/70R17 - 26.1					275/65R18 - 25.7	275/65R18 - 25.7
Alt Tire 3								
Alt Tire 4								
Alt Tire 5								
Alt Tire 6								
Alt Tire 7								
DAW Full Tank	2522	2522	2522	2522	2522	2522	2460	2460
DAW Empty Tank	2400	2400	2400	2400	2400	2400	2348	2348

### Vehicle Description Report

Test Group: TFMXT03.51F1

ID Number	5292907	5292977
Displacement	3.5	3.5
Cert Code	TTFDCNNP0002	TTFDCNNP0003
Fuel Tank(s)	F8	F8
Carline	F150 PICKUP 4WD HEV	F150 PICKUP 4WD HEV
Wheel Configuration	Standard	Standard
Body Style	Super Crew	Super Crew
Wheelbase	157.0	157.0
Transcode Combo	GCC	GCC
Curb Weight	5883	5883
ETW	6000	6000
Loaded Weight LVW	6183	6183
ALVW-ETW	6500	6500
Adj. Loaded Weight	6642	6642
GVWR	7400	7400
GCWR	18400	18400
Min Axle Ratio	3.73	3.73
Max Axle Ratio	3.73	3.73
Min N/V Ratio	25.0	25.0
Max N/V Ratio	25.0	25.0
Emission Vehicle Class	LDT4	LDT4
Drive Code	Part-time 4-Wheel Drive	Part-time 4-Wheel Drive
Trans Type	Semi-Automatic	Semi-Automatic
Calibration Application	50ST	50ST
Min Tire Size	275/60R20 - 25	275/60R20 - 25
Max Tire Size	275/60R20 - 25	275/60R20 - 25
Alt Tire 1		
Alt Tire 2		
Alt Tire 3		
Alt Tire 4		
Alt Tire 5		
Alt Tire 6		
Alt Tire 7		
DAW Full Tank	2460	2460
DAW Empty Tank	2348	2348



## **SECTION 14**

### **Request for Certification**

14.00.00.00



**Environmental & Safety Compliance**

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

September 23<sup>rd</sup>, 2025

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

Dear Ms. Frame:

Ford Motor Company (Ford) herewith submits Part I Application for Certification for the 2026 model year full hybrid electric gasoline powered light-duty (LDT) contained in Ford's 50-State (Federal/CA) test group TFMXT03.51F1 and evaporative emission family TFMXR0295LDG. The test fuel used was Tier 3 E10.

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

<b>Certification &amp; In-use FTP Standards (g/mi)</b>	<b>Useful Life</b>	<b>NMOG + NO<sub>x</sub></b>	<b>CO</b>	<b>PM</b>	<b>US06 PM</b>	<b>HCHO</b>
<b>Final Tier 3 Bin 50</b>	150K	0.050	1.7	0.003	0.006	0.004

This test group meets the SFTP NMOG+NO<sub>x</sub> Composite Family Emission Limit (FEL) of 0.050 g/mi and CO Composite standard of 4.2 g/mi.

In addition, this test group meets the Cold CO standard of 12.5 g/mi and the NMHC Family Emission Limit (FEL) of 0.4 g/mi as part of compliance plan to meet corporate fleet average cold NMHC standards.

This test group also meets the CH<sub>4</sub> standard of 0.030 g/mi and the N<sub>2</sub>O standard of 0.010 g/mi for the FTP.

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

<b>Tier 3</b>	<b>Useful Life</b>	<b>Hot Soak + 2-day diurnal</b>	<b>Hot Soak + 3-day diurnal</b>	<b>Running Loss</b>	<b>ORVR</b>
<b>Certification &amp; In-Use Evaporative Standards</b>	150K	0.500 grams per test	0.500 grams per test	0.05 g/mile	0.20 g/gallon

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

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

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. 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 LDV test group listed in this Application for Certification.

Please contact Terry Cowher at 313-805-6360, 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



**Environmental & Safety Compliance**

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

September 23<sup>rd</sup>, 2025

Ms. Robin U. Lang  
Emissions Certification and Compliance Division  
Air Resources Board  
4001 Iowa Avenue  
Riverside, California 92507

Dear Ms. Lang:

Ford Motor Company (Ford) herewith submits Part I Application for Certification for the 2026 model year full hybrid electric gasoline powered light-duty (LDT) contained in Ford's 50-State (Federal/CA) test group TFMXT03.51F1 and evaporative emission family TFMXR0295LDG. The test fuel used was Tier 3 E10. This application aligns with CARB's Manufacturers Advisory Correspondence (MAC) ECCD-2025-8 alternate pathway (1) described on page 2 as follows:

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

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

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

<b>Certification &amp; In-use FTP Standards (g/mi)</b>	<b>Useful Life</b>	<b>NMOG + NO<sub>x</sub></b>	<b>CO</b>	<b>PM</b>	<b>US06 PM</b>	<b>HCHO</b>
<b>LEVIII ULEV50</b>	150K	0.050	1.7	0.003	0.006	0.004

This test group meets the SFTP NMOG+NO<sub>x</sub> Composite Family Emission Limit (FEL) of 0.050 g/mi and CO Composite standard of 4.2 g/mi. In addition, this test group meets the Cold CO standard of 12.5 g/mi.

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

<b>LEVIII</b>	<b>Useful Life</b>	<b>Hot Soak + 2-day diurnal</b>	<b>Hot Soak + 3-day diurnal</b>	<b>Running Loss</b>	<b>ORVR</b>
<b>Certification &amp; In-Use Evaporative Standards</b>	150K	0.500 grams per test	0.500 grams per test	0.05 g/mile	0.20 g/gallon

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

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

This Part I application for certification has been prepared in accordance with the standardized format recommended by EPA via its mail out # CD-14-19 (LDV/LDT/ICI/LIMO), subject: "Certification Application Reporting Guidance", dated November 24, 2014. This Application has also been prepared in accordance with the California Air Resources Board, Final Regulation Order, Amendments to Sections 1960.1, 1960.5, 1961, and 1962 Title 13, California Code of Regulations (As Amended August 4, 2005).

Therefore, in accordance with the provisions of 40 CFR 86.1844-01(d)(14) including the provisions of 40 CFR Parts 85, 86 and 600, Ford requests that an Executive Order be issued for the LDT test group listed in this Application for Certification.

Please contact Terry Cowher at 313-805-6360, 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



## CCAPS Manual Payment Request

(North America)

REF NO: 306179

**NAME AND ADDRESS OF PAYEE**

Environmental Protection Agency-MVECP  
 U.S. Bank - Government Lockbox 979032

1300 Pennsylvania Ave NW - Washington, DC 20004-3002

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

Employee	Ex-Employee / Board of Director	Mail Attachments	Separate Check	Special Handling
			Y	
Supplier Code	CCAPS Plant Code	Due Date	Currency	Amount
GXHSA	10	ASAP	US	197,634.00

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

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

2026 MODEL YEAR CERTIFICATION FEES - (FORMS ATTACHED)

LOC CODE	GEN. LED.	SUB. ACCT.	SUB. DIV.	DEPT	PROD. CODE	BALANCE REFERENCE	MISC. REFERENCE	INVOICE #	INVOICE DATE	AMOUNT (Bracket Credits)	1099 Tax Type
5100	25A	00217		5100S910		F102A	EPA	306179	3/31/2025	197,634.00	N
TOTAL										197,634.00	

- Pre-requisites for Payment :**
- Requestors or Approvers to ensure the following
    - Receipt of Service
    - Price Validation
    - Supported by invoice or other documentation
  - Check if payment item is on [Uses of Manual Payment Requests](#)
  - For Finance Approval follow [Corporate Approval Authorities - Method of Payment](#)

**TYPE OF INVOICE:**

MANUAL PAYMENT REQUEST CATEGORY (use drop down with Alt+down arrow key):  
 Legal Matters Environmental Fees

**Requestor**

**Operations Approval - Receipt of Service**

Preparer/Requestor CDS ID: [Signature] Date: 3/31/25	Approver CDS ID: LMERRIT2 DocuSigned by: Lawrence Merritt Date: 3/31/2025 DF6ED4749EAC46B...
--	--

**Approvals per Corporate Approval Authorities - Method of Payment**

<p><b>Payment Item is on Uses of Manual Payment Requests</b></p> CDS ID: PBLANCAS Sign: [Signature] Date: 3/31/25 DocuSigned by: Patricia Blancas Ruiz 98D37B2D5DA0498...	<p><b>Payment Item is not on Uses of Manual Payment Requests</b></p> CDS ID: [Blank] Sign: [Blank] Date: [Blank]
---	--

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

The space below may be used for additional local requirements

306179

PA\_MV CP\_v

**S A Fee Form**

Terry Cowher 313-805-6360  
TG - TFMXT03.51F1

Help and EPA nstructions

Tracking Information  
Pay.gov Tracking ID: 27MSSQ7D

\* Required Field

Agency Tracking ID: 77004236187

**General Information**

**Date:** 03/31/2025

Process Code \*

Submit New Fee Filing Form

Manufacturer Code \*

FMX

Manufacturer Name \*

Ford Motor Company

Contact Name \*

Tin Oliver

Contact Email Address \*

toliver@comcast.net

Contact Phone \*

313-323-8938

Calendar Year complete application submitted to EPA \*

2025

**PLEASE NOTE: These fees apply to complete certification applications received by EPA from January 1, 2025, through December 31, 2025. 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 \*

TFMXT03.51F1

**Certificate Request Type (Industry Sector Code)**

Certificate Request Type \*

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

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

ICI VIN Number (Required for ICIs Only)

Do you qualify for a Reduced Fee? \*

No

**Payment Information**

Amount Owed

\$32,939.00

Payment Type \*

Offline ACH

Comments

EPA Form Number 3520-29

OMB Control No. 2060-0545

Approval expires 7/31/2027

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

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



## **SECTION 16**

### **Confidential Information**


16.00.00.00



## **SECTION 17**

### **California ARB Requirements**

17.00.00.00

<b>FoMoCo</b>	<b>Ford Motor Company</b> VEHICLE EMISSION CONTROL INFORMATION
<b>Conforms to regulations:</b> 2026 MY	
<b>U.S. EPA:</b> T3B50 LDT4 <b>OBD:</b> CA OBD II <b>Fuel:</b> Gasoline	
<b>California:</b> ULEV50 LDT <b>OBD:</b> CA OBD II <b>Fuel:</b> Gasoline	
TWC/WR-HO2S/HO2S/TC/CAC/EGR/EGR-C/DFI/SFI	
No adjustments needed.	
3.5L-Group: TFMXT03.51F1    Evap: TFMXR0295LDG	
▽ TW7E-9C485- <b>L S A</b>	

Engine Family: TFMXT03.51F1

Issued: 09/16/2025

Revised:



## **SECTION 18**

### **Revisions**

18.00.00.00

**APPLICATION REVISIONS**

**TFMXT03.51F1**

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

## **Part 2**