

## Certification Summary Information Report

<b>Manufacturer</b>	Wallace Environmental Testing Laboratories, Inc.	<b>Manufacturer Code</b>	WAX
<b>Test Group</b>	TWAXV06.0UL3	<b>Evaporative/Refueling Family</b>	TWAXR0190ECN
<b>Certificate Number</b>	TWAXV06.0UL3-002	<b>CARB Executive Order #</b>	--
<b>Certificate Issue Date</b>	03/27/2026	<b>Certificate Revision Date</b>	--
<b>Certificate Effective Date</b>	03/27/2026	<b>Conditional Certificate</b>	No
<b>CSI Revision #</b>	--	<b>CSI Submission/Revision Date</b>	02/25/2026 04:11:13 PM
<b>Model Year</b>	2026		

  

<b>Test Group Information</b>			
<b>CSI Type</b>	Update for Correction	<b>Running Change Reference Number</b>	--
<b>GHG Exempt Status</b>	Conditional Exemption		
<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	Multipoint/sequential fuel injection	No

  

<b>Hybrid Indicator</b>	No		
<b>Multiple Fuel Storage</b>	--	<b>Rechargeable Energy Storage System Indicator</b>	--
<b>Multiple Fuel Combustion</b>	--	<b>Off-board Charge Capable Indicator</b>	--
<b>Fuel Cell Indicator</b>	No	<b>EPA Vehicle Class</b>	LDV
<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>	TWAXGPGNNN50	<b>Durability Group Equivalency Factor</b>	1
<b>Reduced Fee Test Group</b>	Yes	<b>Certification Region Code(s)</b>	FA
<b>Complies with HD GHG 2b/3 regulations?</b>	No		
<b>Introduction into Commerce Date</b>	03/13/2026	<b>CAP2000 Conditional Certificate?</b>	No
<b>Independent Commercial Importer?</b>	Yes	<b>Alternative Fuel Converter Certificate?</b>	No
<b>SFTP Federal Composite Compliance Identifier</b>	Not Applicable	<b>SFTP Tier 2 Composite CO Option</b>	No
<b>SFTP LEV-III Composite Compliance Indicator</b>	No		
<b>OBD Compliance Type</b>	Federal	<b>OBD Demonstration Vehicle Test Group</b>	TWAXV06.0UL3
<b>Test Group OBD Compliance Level</b>	Full - no deficiencies	<b>Number of Test Group OBD Deficiencies</b>	0
<b>OBD Deficiencies Comments</b>	--		
<b>Mfr Test Group Comments</b>	--		
<b>Mfr Exhaust / Evap Standards Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3		<b>Evaporative/Refueling Family</b>	TWAXR0190ECN			
<b>Evaporative/Refueling Family Information</b>							
<b>Evaporative Summary Information Type</b>	New	<b>Submission/Correction Date</b>	11/10/2025 06:07:19 PM				
<b>Integrated ORVR?</b>	Yes	<b>Fuel(s)</b>	Gasoline				
<b>Multiple Fuel Storage</b>	--						
<b>Bladder Fuel Tank?</b>	No						
<b>Fuel Tank Material</b>	Plastic	<b>Fuel Tank Material Description</b>	HDPE				
<b>Fill Pipe Seal Type</b>	Liquid seal						
<b>Air Intake System Vapor Storage Device?</b>	No	<b>Air Intake System Vapor Storage Device Description</b>	--				
<b>Fuel System Vapor Storage Canister?</b>	Yes	<b>Other Vapor Storage</b>	--				
<b>Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)</b>	190	<b>Number of Primary Canisters</b>	1				
<b>Number of Bleed Canisters</b>	0	<b>Bleed Canister Total Working Capacity (grams)</b>	--				
<b>Mfr Evaporative/Refueling Family Comments</b>	--						
<b>Leak Family Details</b>							
<b>Leak Family Indicator</b>	No						
<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>	--						
<b>Models Covered by this Certificate</b>							
<b>Carline Manufacturer</b>	<b>Division</b>	<b>Carline</b>	<b>Certification Region Code(s)</b>	<b>Drive System</b>	<b>Trans - Type</b>	<b>- # of Gears</b>	<b>Trans - Lockup</b>
Wallace Environmental Testing Laboratories, Inc.	1 - Wallace Environmental Testing Laboratories, Inc.	151 - 2025 Bentley Batur Convertible	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
Wallace Environmental Testing Laboratories, Inc.	1 - Wallace Environmental Testing Laboratories, Inc.	150 - 2025 Bentley Batur Coupe	Federal	All Wheel Drive	Automated Manual-Selectable (e.g. Automated Manual with paddles)	8	No
<b>Engine Description</b>							
<b>Hybrid Type</b>	--			<b>Hybrid Description</b>	--		
<b>Engine Type</b>	4-Stroke Spark Ignition			<b>Mfr Engine Description</b>	--		
<b>Engine Block Arrangement</b>	W-shaped engine			<b>Mfr Engine Block Arrangement Description</b>	--		
<b>Camless Valvetrain Indicator</b>	No			<b>Oil Viscosity/Classification</b>	0W-40 VW50200 / VW50500		
<b>Number of Cylinders/Rotors</b>	12			<b>Mechanically Variable Compression Ratio Indicator</b>	N		

## Certification Summary Information Report

Test Group	TWAXV06.0UL3		Evaporative/Refueling Family	TWAXR0190ECN	
<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	Palladium + Rhodium	Ceramic	Monolith	
3	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith	
4	Three-way catalyst	Palladium + Rhodium	Ceramic	Monolith	
<b>Mfr After Treatment Device (ATD) Comments</b>					
--					
<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>					
6.0		<b>Engine Rated Horsepower</b>		657	
<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>					
Yes					
<b>Cylinder Deactivation Description</b>					
Hardware based cylinder deactivation utilizing valve deactivation with fuel cut and spark on bank 2 only					
<b>Variable Valve Timing</b>					
Yes					
<b>Variable Valve Timing System Description</b>					
Intake and Exhaust Continuously Variable / Mechanical-Hydraulic					
<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 oxygen		<b>Air/Fuel Sensor # 1 Description</b>		--	
<b>Air/Fuel Sensor # 2 Type</b>					
Heated oxygen		<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>					
No		<b>Cooled Exhaust Gas Recirculation</b>		No	
<b>EGR Type</b>					
--		<b>Exhaust Gas Recirculation Description if 'Other'</b>		--	
<b>Closed Loop Air Injection System</b>					
No					
<b>Air Injection Type</b>					
Secondary Air Injection		<b>Air Injection Type if 'Other'</b>		--	
<b>Mfr Engine Configuration Comments</b>					
--					

### Certification Summary Information Report

<b>Test Group</b>		TWAXV06.0UL3			<b>Evaporative/Refueling Family</b>			TWAXR0190ECN			
<b>Official Test Numbers</b>											
<b>Test Group</b>	<b>Fuel</b>	<b>FTP</b>	<b>US06</b>	<b>SC03</b>	<b>Cold CO</b>	<b>Highway</b>	<b>EPA City Litmus Value</b>	<b>EPA City Litmus Threshold</b>	<b>EPA Highway Litmus Value</b>	<b>EPA Highway Litmus Threshold</b>	<b>CREE Weighting Factor</b>
Gasoline		TWAX10092696	--	--	--	TWAX10092697	--	10	--	16	--

### Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3	<b>Evaporative/Refueling Family</b>	TWAXR0190ECN
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**Emission Data Vehicle Information**

Vehicle ID / Configuration	001268 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TWAXV06.0UL3	Original Evaporative/Refueling Family	TWAXR0190ECN
Original Test Vehicle Model Year	2026		
<b>Vehicle Model</b>			
Represented Test Vehicle Make	Bentley	Represented Test Vehicle Model	2025 Bentley Batur

**Leak Family Details**

Leak Family Identifier	--	Leak Family Name	--
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**Drive Sources and Fuel System Details**

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

Hybrid Indicator	No		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	--	Rechargeable Energy Storage System Indicator	--
Rechargeable Energy Storage System	--	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	--		
Odometer Correction -- Initial	0	Odometer Correction Factor	1
Odometer Correction Sign	+ = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles		
Odometer Correction Units	Miles		
Engine Code	DDBA	Rated Horsepower	657
Displacement (liters)	5.95		
Air Aspiration Method	Turbocharged	Air Aspiration Method, if 'Other'	
Number of Air Aspiration Devices	2	Air Aspiration Device Configuration	Parallel
Charge Air Cooler Type	Air	Drive Mode While Testing	2-Wheel Drive, Rear
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	5450	Equivalent Test Weight (pounds)	6000
GVWR (lbs)	6316	N/V Ratio	19.1
Axle Ratio	3.14		
Transmission Type	Automated Manual- Selectable (e.g. Automated Manual with paddles)	# of Transmission Gears	8
Transmission Lockup	No	Creep Gear	No

**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	59.57	0.4383	0.02061	13.25	-0.1163	0.025	17.7

### Certification Summary Information Report

Test Group	TWAXV06.0UL3	Evaporative/Refueling Family	TWAXR0190ECN
<b>Emission Control Device Comments</b>	--		
<b>Manufacturer Test Vehicle Comments</b>	--		

## Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3	<b>Evaporative/Refueling Family</b>	TWAXR0190ECN
<b>Test #</b>	<b>TWAX10092695</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>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	09/25/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	000586	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	2140 Wirtcrest Lane		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	23369	<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>	No

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>METHANE (CH4 - Methane)</b>	0.01	--
<b>CO (Carbon Monoxide)</b>	0.366	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	99.99	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	99.99	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	99.99	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	14.4	14.4
<b>NOX (Nitrogen Oxide)</b>	0.04	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.034	--
<b>NMOG (Non-methane organic gases)</b>	0.035	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.044	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
<b>Carbon-Related Exhaust Emissions</b>	616.694	681

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	616.694	--

**Manufacturer Test Comments** --

## Certification Summary Information Report

Test Group		TWAXV06.0UL3				Evaporative/Refueling Family				TWAXR0190ECN		
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 125	CO	0.37	--	--	--	0.38	--	0.8	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.01	--	--	--	0.006	--	0.016	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.035	--	--	--	0.014	--	0.049	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.075	--	--	--	--	--	0.1	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.04	--	--	--	0.011	--	0.051	999.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3	<b>Evaporative/Refueling Family</b>	TWAXR0190ECN
<b>Test #</b>	<b>TWAX10092696</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>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/19/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	000105	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	2140 Wirtcrest Lane		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	23343	<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>	No

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.008	--
CO (Carbon Monoxide)	0.286	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	99.99	--
DT-EER (Drive Trace Energy Economy Rating)	99.99	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	99.99	--
MFR FE (Manufacturer Fuel Economy)	14.3	14.3
NOX (Nitrogen Oxide)	0.025	--
HC-NM (Non-methane Hydrocarbon)	0.024	--
NMOG (Non-methane organic gases)	0.026	--
HC-TOTAL (Total Hydrocarbon)	0.032	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	620.63	685

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	620.632	--

Manufacturer Test Comments --

## Certification Summary Information Report

Test Group		TWAXV06.0UL3				Evaporative/Refueling Family				TWAXR0190ECN		
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 125	CO	0.29	--	--	--	0.38	--	0.7	2.1	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	METHANE	0.008	--	--	--	0.006	--	0.014	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG	0.026	--	--	--	0.014	--	0.04	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.051	--	--	--	--	--	0.076	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.025	--	--	--	0.011	--	0.036	999.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3	<b>Evaporative/Refueling Family</b>	TWAXR0190ECN
<b>Test #</b>	<b>TWAX10092694</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline
<b>Test Date</b>	09/25/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	000586	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	2140 Wirtcrest Lane		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	23380	<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>	No

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
<b>CO (Carbon Monoxide)</b>	0.059	--
<b>DT-ASCR (Drive Trace Absolute Speed Change Rating)</b>	99.9	--
<b>DT-EER (Drive Trace Energy Economy Rating)</b>	99.9	--
<b>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</b>	99.9	--
<b>MFR FE (Manufacturer Fuel Economy)</b>	26	26
<b>NOX (Nitrogen Oxide)</b>	0.015	--
<b>HC-NM (Non-methane Hydrocarbon)</b>	0.003	--
<b>NMOG (Non-methane organic gases)</b>	0.003	--
<b>HC-TOTAL (Total Hydrocarbon)</b>	0.003	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
<b>Carbon-Related Exhaust Emissions</b>	341.813	377

Test Result Name	Unrounded Test Result	Verify Calculated CO2
<b>Carbon dioxide</b>	341.813	--

**Manufacturer Test Comments** --

### Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3	Evaporative/Refueling Family	TWAXR0190ECN
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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 125	NMOG	0.003	--	--	--	0.0149	--	0.018	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.018	--	--	--	--	--	0.044	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.015	--	--	--	0.0115	--	0.026	999.999	Pass

## Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3	<b>Evaporative/Refueling Family</b>	TWAXR0190ECN
<b>Test #</b>	<b>TWAX10092697</b>	<b>Test Procedure</b>	<b>3 - HWFE</b>
<b>Exhaust Test # for this Evap Test</b>	--	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/25/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	000105	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	LDV/Passenger Car	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	2140 Wirtcrest Lane		
<b>E10 Evaporative Test Measurement Method</b>	--		
<b>Test Start Odometer Reading</b>	23362	<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>	No

## Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.001	--
CO (Carbon Monoxide)	0.1	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	99.9	--
DT-EER (Drive Trace Energy Economy Rating)	99.9	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	99.9	--
MFR FE (Manufacturer Fuel Economy)	26	26
NOX (Nitrogen Oxide)	0.008	--
HC-NM (Non-methane Hydrocarbon)	0.002	--
NMOG (Non-methane organic gases)	0.0022	--
HC-TOTAL (Total Hydrocarbon)	0.003	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	341.937	377

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	341.937	--

Manufacturer Test Comments --

### Certification Summary Information Report

Test Group		TWAXV06.0UL3				Evaporative/Refueling Family				TWAXR0190ECN		
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 125	NMOG	0.0022	--	--	--	0.0149	--	0.017	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NMOG+NOX	0.0102	--	--	--	--	--	0.037	0.125	Pass
Fed	150,000 miles	Federal Tier 3 Bin 125	NOX	0.008	--	--	--	0.0115	--	0.02	999.999	Pass

  

<b>Test #</b>	<b>TWAX10092698</b>	<b>Test Procedure</b>	<b>23 - 2-day evap</b>
<b>Exhaust Test # for this Evap Test</b>	TWAX10092696	<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
<b>Test Date</b>	09/19/2025	<b>Fuel</b>	Gasoline
<b>Fuel Batch ID</b>	000105	<b>Fuel Calibration Number</b>	1
<b>Vehicle Class</b>	N/A	<b>DF Type</b>	EPA Assigned
<b>Verify Test Lab ID</b>	2140 Wirtcrest Lane		
<b>E10 Evaporative Test Measurement Method</b>	Calculated (1.08 x FID Total Hydrocarbons)		
<b>Test Start Odometer Reading</b>	23343	<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)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.09117	--

  

**Manufacturer Test Comments**      --

  

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	120,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.09	0.01	0.1	0.5	Pass

## Certification Summary Information Report

Test Group	TWAXV06.0UL3	Evaporative/Refueling Family	TWAXR0190ECN
<b>Fuel Properties</b>			
<b>Fuel Batch ID</b>	<b>000105</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	<b>Fuel Batch Calibration Date</b>	08/19/2025
<b>Fuel Batch Calibration Effective Date</b>	08/19/2025	<b>Fuel Batch Calibration Ineffective Date</b>	11/30/2025
<b>Carbon Weight Fraction NMHC</b>	0.823	<b>Carbon Weight Fraction HC</b>	0.823
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.741
<b>Fuel Ethanol Volume Percent (%)</b>	9.9	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	17943
<b>Fuel Net Heat of Combustion (E10) (MJ/kg)</b>	41.74	<b>Fuel Carbon Mass Fraction (E10)</b>	0.823
<b>Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)</b>	0.823	<b>Weight Fraction CO2</b>	--
<b>Fuel Batch ID</b>	<b>000586</b>	<b>Fuel Calibration Number</b>	<b>1</b>
<b>Test Fuel Type</b>	61 - Tier 2 Cert Gasoline	<b>Fuel Batch Calibration Date</b>	01/07/2025
<b>Fuel Batch Calibration Effective Date</b>	08/01/2025	<b>Fuel Batch Calibration Ineffective Date</b>	10/30/2025
<b>Carbon Weight Fraction NMHC</b>	0.866	<b>Carbon Weight Fraction HC</b>	0.866
<b>Exhaust Carbon Weight Fraction</b>	--	<b>Fuel Methanol Volume Fraction</b>	--
<b>Fuel Density (grams/cubic ft)</b>	--	<b>Fuel Specific Gravity</b>	0.742
<b>Fuel Ethanol Volume Percent (%)</b>	--	<b>Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)</b>	18552
<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>	0.866	<b>Weight Fraction CO2</b>	--



## Certification Summary Information Report

Test Group	TWAXV06.0UL3	Evaporative/Refueling Family	TWAXR0190ECN
<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	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		TWAXV06.0UL3	Evaporative/Refueling Family		TWAXR0190ECN
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	
<b>Certification Region</b>					
CA	California + CAA Section 177 states		FA	Federal	
<b>Exhaust Emission Standard Level</b>					
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	TWAXV06.0UL3	Evaporative/Refueling Family	TWAXR0190ECN
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		
<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

## Certification Summary Information Report

<b>Test Group</b>	TWAXV06.0UL3	<b>Evaporative/Refueling Family</b>	TWAXR0190ECN
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