

Certification Summary Information Report

Manufacturer	Aston Martin Lagonda	Manufacturer Code	ASX
Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Certificate Number	TASXV04.0AEH-004	CARB Executive Order #	--
Certificate Issue Date	11/24/2025	Certificate Revision Date	--
Certificate Effective Date	11/24/2025	Conditional Certificate	No
CSI Revision #	--	CSI Submission/Revision Date	11/05/2025 10:22:53 AM
Model Year	2026		

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V						
Test Group Information									
CSI Type	Update for Correction	Running Change Reference Number	--						
GHG Exempt Status	Not Exempt								
Drive Sources and Fuel(s)									
Drive Source #1:	Electric Motor								
	<table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Electricity</td><td>--</td><td>No</td></tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Electricity	--	No		
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Electricity	--	No							
Drive Source #2:	Combustion Engine								
	<table border="1"> <tr> <th>Fuel</th><th>Basic Fuel Metering System</th><th>Lean Burn Strategy Indicator</th></tr> <tr> <td>Gasoline</td><td>Spark Ignition Direct fuel injection</td><td>No</td></tr> </table>	Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator	Gasoline	Spark Ignition Direct fuel injection	No		
Fuel	Basic Fuel Metering System	Lean Burn Strategy Indicator							
Gasoline	Spark Ignition Direct fuel injection	No							
Hybrid Indicator	Yes								
Multiple Fuel Storage	--	Rechargeable Energy Storage System Indicator	Yes						
Multiple Fuel Combustion	--	Off-board Charge Capable Indicator	Yes						
Fuel Cell Indicator	No	EPA Vehicle Class	LDV						
Federal Clean Fuel Vehicle	Yes	Federal Clean Fuel Vehicle Standard	ULEV						
Federal Clean Fuel Vehicle ILEV	No	California Partial Zero Emissions Vehicle Indicator	No						
Durability Group Name	TASXGPGNNE26	Durability Group Equivalency Factor	1.0						
Reduced Fee Test Group	No	Certification Region Code(s)	FA, CA						
Complies with HD GHG 2b/3 regulations?	No								
Introduction into Commerce Date	11/28/2025	CAP2000 Conditional Certificate?	No						
Independent Commercial Importer?	No	Alternative Fuel Converter Certificate?	No						
SFTP Federal Composite Compliance Identifier	Tier 3	SFTP Tier 2 Composite CO Option	--						
SFTP LEV-III Composite Compliance Indicator	No								
OBD Compliance Type	CARB	OBD Demonstration Vehicle Test Group	TASXV04.0AEH						
Test Group OBD Compliance Level	Full - no deficiencies	Number of Test Group OBD Deficiencies	1						
OBD Deficiencies Comments	--								
Mfr Test Group Comments	--								
Mfr Exhaust / Evap Standards Comments	--								

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V				
Evaporative/Refueling Family Information							
Evaporative Summary Information Type	New	Submission/Correction Date	10/30/2025 12:50:52 PM				
Integrated ORVR?	Yes	Fuel(s)	Electricity, Gasoline				
Multiple Fuel Storage	Fuels Stored Separately						
Bladder Fuel Tank?	No						
Fuel Tank Material	Metal	Fuel Tank Material Description	Aluminum				
Fill Pipe Seal Type	Liquid seal						
Air Intake System Vapor Storage Device?	No	Air Intake System Vapor Storage Device Description	--				
Fuel System Vapor Storage Canister?	Yes	Other Vapor Storage	--				
Fuel System Vapor Storage Canister(s) Total Working Capacity (grams)	138	Number of Primary Canisters	1				
Number of Bleed Canisters	0	Bleed Canister Total Working Capacity (grams)	--				
Mfr Evaporative/Refueling Family Comments	Specific NIRCOS Evap Family						
Leak Family Details							
Leak Family Indicator	Yes						
Canister Bleed Test Indicator	Yes	Applicability of Evaporative Canister Bleed Test	50 State				
Evaporative Canister Bleed Test Comments	--						
CARB Fuel Only (Rig) Test Indicator	No	Applicability of CARB Fuel Only (Rig) Test	--				
CARB Fuel Only (Rig) Test Comments	--						
Leak Family Name	Applicability of Leak Family Requirements	Leak Family Standard (inches)	Leak Family Description				
TASXR0138T3V-001	50 State	0.02	Valhalla specific family				
Models Covered by this Certificate							
Carline Manufacturer	Division	Carline	Certification Region Code(s)	Drive System	Trans - Type	- # of Gears	Trans - Lockup
Aston Martin Lagonda	1 - Aston Martin Lagonda Ltd	303 - Valhalla	California + CAA Section 177 states	All Wheel Drive	Automatic	8	Yes
Aston Martin Lagonda	1 - Aston Martin Lagonda Ltd	303 - Valhalla	Federal	All Wheel Drive	Automatic	8	Yes
Engine Description							
Hybrid Type	IC Engine/Electric Motor			Hybrid Description	--		
Engine Type	4-Stroke Spark Ignition			Mfr Engine Description	--		
Engine Block Arrangement	V-shaped engine			Mfr Engine Block Arrangement Description	--		
Camless Valvetrain Indicator	No			Oil Viscosity/Classification	0W40		
Number of Cylinders/Rotors	8			Mechanically Variable Compression Ratio Indicator	N		

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
After Treatment Device(s) (ATD)			
ATD Number	ATD Type	ATD Precious Metal	Substrate Material
1	Three-way catalyst	Palladium + Rhodium	Ceramic
2	Three-way catalyst	Palladium + Rhodium	Ceramic
3	Three-way catalyst	Palladium + Rhodium	Ceramic
4	Three-way catalyst	Palladium + Rhodium	Ceramic
5	Other	Uncoated GPF	Ceramic
6	Other	Uncoated GPF	Ceramic
Mfr After Treatment Device (ATD) Comments Warm up primary element per bank, separate GPF plus a secondary element per bank.			
Direct Ozone Reduction (DOR) Device Not Equipped			
Mfr Emission Control Device Comments --			
Engine Configuration Number 1			
Engine Displacement (liters)	4.0	Engine Rated Horsepower	818
Number of Inlet Valves Per Cylinder	2	Number of Exhaust Valves Per Cylinder	2
Air Aspiration Method	Turbocharged	Number of Air Aspiration Devices	2
Air Aspiration Device Configuration	Parallel	Charge Air Cooler Type	Air
Air Aspiration Drive Method(s)	Hydraulic		
Cylinder Deactivation	No		
Cylinder Deactivation Description	--		
Variable Valve Timing	Yes		
Variable Valve Timing System Description	Inlet and Exhaust Cam Phasing		
Variable Valve Lift?	No		
Variable Valve Lift System Description	--		
Number of Knock Sensors	4	Number of Air/Fuel Sensors	4
Air/Fuel Sensor # 1 Type	Heated oxygen	Air/Fuel Sensor # 1 Description	--
Air/Fuel Sensor # 2 Type	Heated oxygen	Air/Fuel Sensor # 2 Description	--
Air/Fuel Sensor # 3 Type	Heated oxygen	Air/Fuel Sensor # 3 Description	--
Air/Fuel Sensor # 4 Type	Heated oxygen	Air/Fuel Sensor # 4 Description	--
Mfr Air/Fuel Sensor Comments	--		
Exhaust Gas Recirculation	No	Cooled Exhaust Gas Recirculation	No
EGR Type	--	Exhaust Gas Recirculation Description if 'Other'	--
Closed Loop Air Injection System	No		
Air Injection Type	Not Applicable	Air Injection Type if 'Other'	--
Mfr Engine Configuration Comments	--		

Certification Summary Information Report

Test Group		TASXV04.0AEH		Evaporative/Refueling Family		TASXR0138T3V				
Official Test Numbers										
Test Group Fuel	FTP	US06	SC03	Cold CO	Highway	EPA City Litmus Value	EPA City Litmus Threshold	EPA Highway Litmus Value	EPA Highway Litmus Threshold	CREE Weighting Factor
Electricity	TASX10092339	TASX10092364	TASX10092363	TASX10092362	TASX10092361	--	--	--	--	--
Gasoline	TASX10092339	TASX10092364	TASX10092363	TASX10092362	TASX10092361	13.5	13.3	18.8	17.7	--
SFTP LEV-III Official Test Numbers										
Test Group Fuel	FTP		US06		SC03					
Gasoline	TASX10092339		TASX10092364		TASX10092363					
Electricity	TASX10092339		TASX10092364		TASX10092363					
Official Charge Depleting Test Numbers										
Test Group Fuel	UDDS		Highway							
Electricity	TASX10092503		TASX10092478							
Gasoline	TASX10092503		TASX10092478							
Hybrid Electric Vehicle And Fuel Cell Information										
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	409		Battery Energy Capacity		15					
Battery Specific Energy	67		Battery Charger Type		On-Board					
Number of Capacitors	--		Capacitor Rating (In Farads)		--					
Mfr Capacitor Comments	--									
Hydraulic System Description	--									
Regenerative Braking Type	Electrical Regen Brake		Driver Controlled Regenerative Braking		No					
Regenerative Braking Source	Front Wheels									
Mfr Regenerative Braking Description	--									
Drive Motor(s)/Generator(s)	3									
Motor/Generator Type 1	AC Interior permanent magnet		Rated Motor/Generator Power		112					
Motor/Generator Type 2	AC Interior permanent magnet		Rated Motor/Generator Power		112					
Motor/Generator Type 3	AC Interior permanent magnet		Rated Motor/Generator Power		155					
Mfr Fuel Cell Description	--									
Fuel Cell On-Board H2 Storage Capacity (kg)	--		Usable H2 Fill Capacity (kg)		--					
Mfr Hybrid Electric/ Electric Vehicle Comments	Front P4 LH, Front P4 RH plus P2.5 Rear integrated into transmission									

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
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Emission Data Vehicle Information

Vehicle ID / Configuration	003PP0360 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TASXV04.0AEH	Original Evaporative/Refueling Family	TASXR0138T3V
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Aston Martin	Represented Test Vehicle Model	Valhalla
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	TASXR0138T3V-001
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Electric Motor	Electricity
2	Combustion Engine	Gasoline

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9999
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AE26/	Rated Horsepower	818
Displacement (liters)	4		
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	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3980	Equivalent Test Weight (pounds)	4500
GVWR (lbs)	--	N/V Ratio	25.9
Axle Ratio	4.24		
Transmission Type	Dual Clutch Transmission	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
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Dynamometer Coefficients:

Coefficient Category	Target Coefficients			Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients
	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	
City/Highway/Evap	60.92	0.6491	0.0185	8.25	0.1036	0.0206	18.6
Cold CO	67.02	0.7138	0.0203	-1.06	0.4761	0.0272	N/A
US06	60.92	0.6491	0.0185	8.25	0.1036	0.0206	N/A

Emission Control Device Comments --

Manufacturer Test Vehicle Comments 2026MY Valhalla 8 speed DCT

Test #	TASX10092390	Test Procedure	23 - 2-day evap
Exhaust Test # for this Evap Test	TASX10092389	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	07/29/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	3406
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3760	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.321	--

Manufacturer Test Comments 2026MY Valhalla 2DD Evap

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	0.321	0.003	0.324	0.375	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.321	0.003	0.324	0.4	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092404	Test Procedure	34 - Federal fuel 3-day evap
Exhaust Test # for this Evap Test	TASX10092395	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/15/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	3406
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3801	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.3445	--

Manufacturer Test Comments

2026MY Valhalla 3DD evap

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	0.3445	0.0067	0.351	0.375	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.3445	0.0067	0.351	0.4	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V						
Test #	TASX10092394	Test Procedure	24 - Federal fuel refueling test (ORVR)						
Exhaust Test # for this Evap Test	TASX10092389	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)						
Test Date	10/02/2025	Fuel	Gasoline						
Fuel Batch ID	67414	Fuel Calibration Number	3406						
Vehicle Class	N/A	DF Type	EPA Assigned						
Verify Test Lab ID	IDIADA Automotive Technology SA								
E10 Evaporative Test Measurement Method	--								
Test Start Odometer Reading	3875	Odometer Units	M						
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--						
State of Charge Delta	Yes								
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes						
Test Results									
<table border="1"> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> <tr> <td>HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)</td> <td>0.009</td> <td>--</td> </tr> </table>				Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.009	--
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)							
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.009	--							
Manufacturer Test Comments									
2026MY Valhalla 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	0.01	0.005	0	0.2	Pass	
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.01	0.005	0	0.2	Pass	

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092403	Test Procedure	32 - Federal Fuel Running Loss
Exhaust Test # for this Evap Test	TASX10092395	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/15/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	3406
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3801	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0009	--

Manufacturer Test Comments

2026MY Valhalla RLS

Certification Region	Useful Life	Standard Level	Emission Name	Rounded Result	Add DF	Certification Level	Standard	Pass/Fail
Fed	150,000 miles	Federal Tier 3 Evap	HC-TOTAL-EQUIV	0.001	0	0	0.05	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.001	0	0	0.05	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092405	Test Procedure	65 - Evap Canister Bleed Test
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/03/2025	Fuel	Gasoline
Fuel Batch ID	67414	Fuel Calibration Number	3406
Vehicle Class	N/A	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)		
Test Start Odometer Reading	3801	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only)	0.0175	--

Manufacturer Test Comments

BETP AML result

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	0.018	0	0.02	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	HC-TOTAL-EQUIV	0.018	0	0.02	0.02	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V					
Test #	TASX10092445	Test Procedure	66 - Leak Test - Evap Fuel System OBD					
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)					
Test Date	10/09/2025	Fuel	Gasoline					
Fuel Batch ID	67414	Fuel Calibration Number	3406					
Vehicle Class	N/A	DF Type	EPA Assigned					
Verify Test Lab ID	IDIADA Automotive Technology SA							
E10 Evaporative Test Measurement Method	Calculated (1.08 x FID Total Hydrocarbons)							
Test Start Odometer Reading	3890	Odometer Units	M					
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--					
State of Charge Delta	Yes							
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes					
Test Results								
Test Result Name		Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)					
LEAK-DIA (Effective Leak Diameter (inches))		0	--					
Manufacturer Test Comments Valhalla Leak Test family								
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	LEAK-DIA	0	0	0	0.02	Pass
CA	150,000 miles	California LEV-IV Zero Evap (Option 2)	LEAK-DIA	0	0	0	0.02	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
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Emission Data Vehicle Information

Vehicle ID / Configuration	003PP0362 / 0	Manufacturer Vehicle Configuration Number	0
Original Test Group Name	TASXV04.0AEH	Original Evaporative/Refueling Family	TASXR0138T3V
Original Test Vehicle Model Year	2026		

Vehicle Model

Represented Test Vehicle Make	Aston Martin	Represented Test Vehicle Model	Valhalla
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Leak Family Details

Leak Family Identifier	001	Leak Family Name	TASXR0138T3V-001
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Drive Sources and Fuel System Details

Drive Source and Fuel#	Drive Source	Fuel
1	Combustion Engine	Gasoline
2	Electric Motor	Electricity

Hybrid Indicator	Yes		
Multiple Fuel Storage	--	Multiple Fuel Combustion	--
Fuel Cell Indicator	No	Rechargeable Energy Storage System Indicator	Yes
Rechargeable Energy Storage System	Battery(s)	Rechargeable Energy Storage System, if 'Other'	--
Off-board charge Capable Indicator	Yes		
Odometer Correction -- Initial	0	Odometer Correction Factor	0.9999
Odometer Correction Sign	- = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor		
Odometer Correction Units	Miles		
Engine Code	AE26/	Rated Horsepower	818
Displacement (liters)	4		
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	4-Wheel Drive
Shift Indicator Light Usage	Not equipped	Aged Emission Components	4,000 (mi)
Curb Weight (lbs)	3980	Equivalent Test Weight (pounds)	4500
GVWR (lbs)	--	N/V Ratio	25.9
Axle Ratio	4.24		
Transmission Type	Dual Clutch Transmission	# of Transmission Gears	8
Transmission Lockup	Yes	Creeper Gear	No

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family		TASXR0138T3V	
Dynamometer Coefficients:								
Target Coefficients				Set Coefficients			EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients	
Coefficient Category	A (lbf)	B (lbf/mph)	C (lbf/mph**2)	A (lbf)	B (lbf/mph)	C (lbf/mph**2)		
City/Highway/Evap	60.92	0.6491	0.0185	8.25	0.1036	0.0206	18.6	
Cold CO	67.02	0.7138	0.0203	-1.06	0.4761	0.0272	N/A	
US06	60.92	0.6491	0.0185	8.25	0.1036	0.0206	N/A	
Emission Control Device Comments		--						
Manufacturer Test Vehicle Comments		2026MY Valhalla 8 speed DCT						

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092339	Test Procedure	21 - Federal fuel 2-day exhaust (w/can load)
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/03/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4233	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V																																																																								
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>567.908</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.609</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>15.2506</td><td>15.2506</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.004</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.022</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>466.633</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.444</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>18.5663</td><td>18.5663</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0011</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.002</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.515</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>0.75</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-0.36</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>1.48</td><td>--</td></tr><tr><td>HCHO (Formaldehyde)</td><td>0.0007</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>16.6522</td><td>16.6522</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.004</td><td>--</td></tr><tr><td>N2O (Nitrous Oxide)</td><td>0.004</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.009</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0099</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.00081</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.011</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	567.908	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.609	--	FE BAG 1 (Bag 1 Fuel Economy)	15.2506	15.2506	CH4 BAG 1 (Bag 1 Methane)	0.004	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.022	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	466.633	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.444	--	FE BAG 2 (Bag 2 Fuel Economy)	18.5663	18.5663	CH4 BAG 2 (Bag 2 Methane)	0	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0011	--	METHANE (CH4 - Methane)	0.002	--	CO (Carbon Monoxide)	0.515	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.75	--	DT-EER (Drive Trace Energy Economy Rating)	-0.36	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	1.48	--	HCHO (Formaldehyde)	0.0007	--	MFR FE (Manufacturer Fuel Economy)	16.6522	16.6522	NOX (Nitrogen Oxide)	0.004	--	N2O (Nitrous Oxide)	0.004	--	HC-NM (Non-methane Hydrocarbon)	0.009	--	NMOG (Non-methane organic gases)	0.0099	--	PM (Particulate Matter)	0.00081	--	HC-TOTAL (Total Hydrocarbon)	0.011	--		
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Manufacturer Test Comments

2026MY Valhalla EDV

Certification Summary Information Report

Test Group		TASXV04.0AEH				Evaporative/Refueling Family				TASXR0138T3V		
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 70	CO	0.52	--	--	--	0.07	--	0.6	1.7	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CO-COMP	0.65	--	--	--	0	--	0.6	4.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	511	--	--	--	0	--	511	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	HCHO	0.0007	--	--	--	0.0003	--	0.001	0.004	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	METHANE	0.002	--	--	--	0	--	0	0.03	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	N2O	0.004	--	--	--	0.0043	--	0.01	0.01	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0099	1	1.1	--	0.0026	--	0.012	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0139	--	1.1	--	--	--	0.021	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX-COMP	0.0126	--	1.1	--	0	--	0.013	0.050	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.004	--	--	--	0.0043	--	0.008	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	PM	0.0008	--	--	--	0	--	0.001	0.003	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.52	--	--	--	0.07	--	0.6	1.7	Pass
CA	150,000 miles	California LEV-IV ULEV70	CREE	511	--	--	--	0	--	511	--	--
CA	150,000 miles	California LEV-IV ULEV70	HCHO	0.0007	--	--	--	0.0003	--	0.001	0.004	Pass
CA	150,000 miles	California LEV-IV ULEV70	METHANE	0.002	--	--	--	0	--	0	0.03	Pass
CA	150,000 miles	California LEV-IV ULEV70	N2O	0.004	--	--	--	0.004	--	0.01	0.01	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0099	1	1.1	--	0.0026	--	0.012	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0139	--	1.1	--	--	--	0.021	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.004	--	--	--	0.0043	--	0.008	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0008	--	--	--	0	--	0.001	0.003	Pass

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

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092362	Test Procedure	11 - Cold CO
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/20/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4486	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	
CO2 BAG 1 (Bag 1 Carbon Dioxide)	761.996	--	
CO BAG 1 (Bag 1 Carbon Monoxide)	1.46	--	
FE BAG 1 (Bag 1 Fuel Economy)	11.3415	11.3415	
CH4 BAG 1 (Bag 1 Methane)	0.02	--	
NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.2513	--	
CO2 BAG 2 (Bag 2 Carbon Dioxide)	697.223	--	
CO BAG 2 (Bag 2 Carbon Monoxide)	0.63	--	
FE BAG 2 (Bag 2 Fuel Economy)	12.44	12.44	
CH4 BAG 2 (Bag 2 Methane)	0	--	
NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	
CO2 BAG 3 (Bag 3 Carbon Dioxide)	556.583	--	
CO BAG 3 (Bag 3 Carbon Monoxide)	0.51	--	
FE BAG 3 (Bag 3 Fuel Economy)	15.5829	15.5829	
CH4 BAG 3 (Bag 3 Methane)	0.001	--	
NMOG BAG 3 (Bag 3 Non-methane organic gases)	0	--	
METHANE (CH4 - Methane)	0.005	--	
CO (Carbon Monoxide)	0.43	--	
DT-ASCR (Drive Trace Absolute Speed Change Rating)	0.59	--	
DT-EER (Drive Trace Energy Economy Rating)	-0.01	--	
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	0.6	--	
MFR FE (Manufacturer Fuel Economy)	12.8961	12.8961	
NOX (Nitrogen Oxide)	0.017	--	
HC-NM (Non-methane Hydrocarbon)	0.047	--	
NMOG (Non-methane organic gases)	0.0517	--	
HC-TOTAL (Total Hydrocarbon)	0.0515	--	
Test Result Name	Unrounded Test Result	Verify Calculated CO2	
Carbon dioxide	671.987	--	

Manufacturer Test Comments

2026MY Valhalla EDV

Certification Summary Information Report

Test Group		TASXV04.0AEH				Evaporative/Refueling Family				TASXR0138T3V		
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 70	CO	0.4	--	--	--	0	--	0	10	Pass
Fed	50,000 miles	Federal Tier 3 Bin 70	HC-NM	0.05	--	--	--	0	--	0	0.3	Pass
CA	50,000 miles	California LEV-IV ULEV70	CO	0.4	--	--	--	0	--	0	10	Pass
CA	50,000 miles	California LEV-IV ULEV70	HC-NM	0.05	--	--	--	0	--	0	0.3	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092365	Test Procedure	51 - CA fuel 50 Deg(F) exhaust test
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/17/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4423	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V																																																																		
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>696.392</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.751</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>12.4362</td><td>12.4362</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.006</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0385</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>504.987</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.402</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>17.1604</td><td>17.1604</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.001</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.003</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.55</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-1.21</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.16</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-1.33</td><td>--</td></tr><tr><td>HCHO (Formaldehyde)</td><td>0.00056</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>14.2726</td><td>14.2726</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.007</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.0151</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0166</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0178</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	696.392	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.751	--	FE BAG 1 (Bag 1 Fuel Economy)	12.4362	12.4362	CH4 BAG 1 (Bag 1 Methane)	0.006	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0385	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	504.987	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.402	--	FE BAG 2 (Bag 2 Fuel Economy)	17.1604	17.1604	CH4 BAG 2 (Bag 2 Methane)	0.001	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0	--	METHANE (CH4 - Methane)	0.003	--	CO (Carbon Monoxide)	0.55	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-1.21	--	DT-EER (Drive Trace Energy Economy Rating)	-1.16	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-1.33	--	HCHO (Formaldehyde)	0.00056	--	MFR FE (Manufacturer Fuel Economy)	14.2726	14.2726	NOX (Nitrogen Oxide)	0.007	--	HC-NM (Non-methane Hydrocarbon)	0.0151	--	NMOG (Non-methane organic gases)	0.0166	--	HC-TOTAL (Total Hydrocarbon)	0.0178	--		
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	Carbon-Related Exhaust Emissions	587	--																																																																		
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Manufacturer Test Comments	2026MY Valhalla EDV																																																																				

Certification Summary Information Report

Test Group		TASXV04.0AEH				Evaporative/Refueling Family				TASXR0138T3V		
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
CA	50,000 miles	California LEV-IV ULEV70	CO	0.55	--	--	--	0	--	0.6	1.7	Pass
CA	50,000 miles	California LEV-IV ULEV70	HCHO	0.0006	--	--	--	0	--	0.001	0.016	Pass
CA	50,000 miles	California LEV-IV ULEV70	NMOG	0.0166	--	--	--	0	--	0.017	999.999	Pass
CA	50,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0236	1	1.1	--	--	--	0.02	0.14	Pass
CA	50,000 miles	California LEV-IV ULEV70	NOX	0.007	--	--	--	0	--	0.007	999.999	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092361	Test Procedure	3 - HWFE
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/03/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4249	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0004	--
CO (Carbon Monoxide)	0.3	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	4.48	--
DT-EER (Drive Trace Energy Economy Rating)	-0.27	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	5.5	--
MFR FE (Manufacturer Fuel Economy)	25.5	25.5
NOX (Nitrogen Oxide)	0	--
NMOG (Non-methane organic gases)	0	--
HC-TOTAL (Total Hydrocarbon)	0.0002	--

Test Result Name	Unrounded Test Result	Verify Calculated CREE/OPT-CREE
Carbon-Related Exhaust Emissions	339	339

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	339.4374	--

Manufacturer Test Comments 2026MY Valhalla EDV

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family					TASXR0138T3V		
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 70	CREE	339	--	--	--	0	--	339	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0	--	1.03	--	0.0026	--	0.003	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0	--	1.03	--	--	--	0.007	0.070	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0	--	--	--	0.0043	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CREE	339	--	--	--	0	--	339	--	--
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0	--	1.1	--	0.0026	--	0.003	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0	--	1.1	--	--	--	0.007	0.070	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0	--	--	--	0.0043	--	0.004	999.999	Pass

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

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092364	Test Procedure	90 - US06
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/08/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4345	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
Test Results			

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V																																																																					
	<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated FE Equivalent Value (miles per gallon)</th></tr><tr><td>CO2 BAG 1 (Bag 1 Carbon Dioxide)</td><td>709.9</td><td>--</td></tr><tr><td>CO BAG 1 (Bag 1 Carbon Monoxide)</td><td>0.93</td><td>--</td></tr><tr><td>FE BAG 1 (Bag 1 Fuel Economy)</td><td>12.2</td><td>12.2</td></tr><tr><td>CH4 BAG 1 (Bag 1 Methane)</td><td>0.006</td><td>--</td></tr><tr><td>NMOG BAG 1 (Bag 1 Non-methane organic gases)</td><td>0.0052</td><td>--</td></tr><tr><td>CO2 BAG 2 (Bag 2 Carbon Dioxide)</td><td>425.6</td><td>--</td></tr><tr><td>CO BAG 2 (Bag 2 Carbon Monoxide)</td><td>0.67</td><td>--</td></tr><tr><td>FE BAG 2 (Bag 2 Fuel Economy)</td><td>20.3</td><td>20.3</td></tr><tr><td>CH4 BAG 2 (Bag 2 Methane)</td><td>0.01</td><td>--</td></tr><tr><td>NMOG BAG 2 (Bag 2 Non-methane organic gases)</td><td>0.0113</td><td>--</td></tr><tr><td>METHANE (CH4 - Methane)</td><td>0.0089</td><td>--</td></tr><tr><td>CO (Carbon Monoxide)</td><td>0.73</td><td>--</td></tr><tr><td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td><td>-2.62</td><td>--</td></tr><tr><td>DT-EER (Drive Trace Energy Economy Rating)</td><td>-1.6</td><td>--</td></tr><tr><td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td><td>-4.2</td><td>--</td></tr><tr><td>MFR FE (Manufacturer Fuel Economy)</td><td>17.6</td><td>17.6</td></tr><tr><td>NOX (Nitrogen Oxide)</td><td>0.002</td><td>--</td></tr><tr><td>HC-NM (Non-methane Hydrocarbon)</td><td>0.01</td><td>--</td></tr><tr><td>NMOG (Non-methane organic gases)</td><td>0.0103</td><td>--</td></tr><tr><td>PM (Particulate Matter)</td><td>0.0032</td><td>--</td></tr><tr><td>HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)</td><td>0.012</td><td>--</td></tr><tr><td>HC-TOTAL (Total Hydrocarbon)</td><td>0.0175</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)	CO2 BAG 1 (Bag 1 Carbon Dioxide)	709.9	--	CO BAG 1 (Bag 1 Carbon Monoxide)	0.93	--	FE BAG 1 (Bag 1 Fuel Economy)	12.2	12.2	CH4 BAG 1 (Bag 1 Methane)	0.006	--	NMOG BAG 1 (Bag 1 Non-methane organic gases)	0.0052	--	CO2 BAG 2 (Bag 2 Carbon Dioxide)	425.6	--	CO BAG 2 (Bag 2 Carbon Monoxide)	0.67	--	FE BAG 2 (Bag 2 Fuel Economy)	20.3	20.3	CH4 BAG 2 (Bag 2 Methane)	0.01	--	NMOG BAG 2 (Bag 2 Non-methane organic gases)	0.0113	--	METHANE (CH4 - Methane)	0.0089	--	CO (Carbon Monoxide)	0.73	--	DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.62	--	DT-EER (Drive Trace Energy Economy Rating)	-1.6	--	DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-4.2	--	MFR FE (Manufacturer Fuel Economy)	17.6	17.6	NOX (Nitrogen Oxide)	0.002	--	HC-NM (Non-methane Hydrocarbon)	0.01	--	NMOG (Non-methane organic gases)	0.0103	--	PM (Particulate Matter)	0.0032	--	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.012	--	HC-TOTAL (Total Hydrocarbon)	0.0175	--		
	Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)																																																																					
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	HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.012	--																																																																					
	HC-TOTAL (Total Hydrocarbon)	0.0175	--																																																																					
		<table><tr><th>Test Result Name</th><th>Unrounded Test Result</th><th>Verify Calculated CO2</th></tr><tr><td>Carbon dioxide</td><td>493.201</td><td>--</td></tr></table>	Test Result Name	Unrounded Test Result	Verify Calculated CO2	Carbon dioxide	493.201	--																																																																
	Test Result Name	Unrounded Test Result	Verify Calculated CO2																																																																					
	Carbon dioxide	493.201	--																																																																					
	Manufacturer Test Comments	2026MY Valhalla EDV																																																																						

Certification Summary Information Report

Test Group		TASXV04.0AEH				Evaporative/Refueling Family				TASXR0138T3V		
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 70	CO	0.73	--	--	--	0.07	--	0.8	9.6	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.0103	--	1.03	--	0	--	0.01	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.0123	--	1.03	--	--	--	0.012	0.084	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.002	--	--	--	0	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.73	--	--	--	0.07	--	0.8	9.6	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.0103	--	1.03	--	0	--	0.01	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.0123	--	1.03	--	--	--	0.012	0.084	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.002	--	--	--	0	--	0.002	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	PM	0.0032	--	--	--	0	--	0.003	0.006	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092363	Test Procedure	95 - SC03
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/20/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4527	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes

Test Results

Test Result Name	Unrounded Test Result	Verify Calculated FE Equivalent Value (miles per gallon)
METHANE (CH4 - Methane)	0.0035	--
CO (Carbon Monoxide)	0.509	--
DT-ASCR (Drive Trace Absolute Speed Change Rating)	-2.54	--
DT-EER (Drive Trace Energy Economy Rating)	-1.58	--
DT-IWRR (Drive Trace Inertia Work Ratio Rating)	-2.24	--
MFR FE (Manufacturer Fuel Economy)	17.1	17.1
NOX (Nitrogen Oxide)	0.004	--
HC-NM (Non-methane Hydrocarbon)	0.0009	--
NMOG (Non-methane organic gases)	0.001	--
HC-NM+NOX (SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03)	0.0045	--
HC-TOTAL (Total Hydrocarbon)	0.0042	--

Test Result Name	Unrounded Test Result	Verify Calculated CO2
Carbon dioxide	505.7825	--

Manufacturer Test Comments

2026MY Valhalla EDV

Certification Summary Information Report

Test Group		TASXV04.0AEH				Evaporative/Refueling Family				TASXR0138T3V		
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 70	CO	0.51	--	--	--	0.07	--	0.6	3.2	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG	0.001	--	1.03	--	0	--	0.001	999.999	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	0.005	--	1.03	--	--	--	0	0.07	Pass
Fed	150,000 miles	Federal Tier 3 Bin 70	NOX	0.004	--	--	--	0	--	0.004	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	CO	0.51	--	--	--	0.07	--	0.6	3.2	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG	0.001	--	1.03	--	0	--	0.001	999.999	Pass
CA	150,000 miles	California LEV-IV ULEV70	NMOG+NOX	0.005	--	1.03	--	--	--	0	0.07	Pass
CA	150,000 miles	California LEV-IV ULEV70	NOX	0.004	--	--	--	0	--	0.004	999.999	Pass

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092478	Test Procedure	84 - Charge Depleting Highway
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	09/05/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4296	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	409	Recharge Event Energy (kiloWatt-hours)	2.982
Charge Depleting Range (Calculated miles)	10.27	Charge Depleting Range (Actual miles)	6.38
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	6.38	Equivalent All Electric Range (miles)	6.11
Number of Charge Depleting Bags/Phases Conducted	4	Transition Bag/Phase Number	2
Charge Depleting Bag/Phase #1			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.27	
Average System Voltage		410.01	
CH4 - Methane		0.0051	
Carbon Monoxide		0.35	
Carbon dioxide		134.9	
Carbon-Related Exhaust Emissions		134	
Drive Trace Absolute Speed Change Rating		2.33	
Drive Trace Energy Economy Rating		0.014	
Drive Trace Inertia Work Ratio Rating		2.93	
Integrated Amp-hours		7.53	
Manufacturer Fuel Economy		64.01	
Nitrogen Oxide		0.003	
Non-methane Hydrocarbon		0.0123	
Non-methane organic gases		0.0135	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Total Hydrocarbon		0.0168	

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Charge Depleting Bag/Phase #2			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.27	
Average System Voltage		404.3	
CH4 - Methane		0.0003	
Carbon Monoxide		0.26	
Carbon dioxide		333	
Carbon-Related Exhaust Emissions		333	
Drive Trace Absolute Speed Change Rating		-1.1	
Drive Trace Energy Economy Rating		-0.29	
Drive Trace Inertia Work Ratio Rating		-1.7	
Integrated Amp-hours		7.53	
Manufacturer Fuel Economy		26.02	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0.0004	
Non-methane organic gases		0.0004	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Total Hydrocarbon		0.0006	
Charge Depleting Bag/Phase #3			
Test Result/Emission Name		Unrounded Test Result	
Actual Distance Driven (miles)		10.26	
Average System Voltage		405.48	
CH4 - Methane		0.0002	
Carbon Monoxide		0.32	
Carbon dioxide		331.5	
Carbon-Related Exhaust Emissions		331	
Drive Trace Absolute Speed Change Rating		0.2	
Drive Trace Energy Economy Rating		-0.23	
Drive Trace Inertia Work Ratio Rating		0.5	
Integrated Amp-hours		7.53	
Manufacturer Fuel Economy		26.14	
Nitrogen Oxide		0	
Non-methane Hydrocarbon		0.0001	
Non-methane organic gases		0.0001	
Non-methane organic gases plus Nitrogen Oxides		999.999	
Total Hydrocarbon		0.0004	
Charge Depleting Bag/Phase #4			

Certification Summary Information Report

Test Group	TASXV04.0AEH				Evaporative/Refueling Family					TASXR0138T3V			
	Test Result/Emission Name					Unrounded Test Result							
	Actual Distance Driven (miles)					10.27							
	Average System Voltage					405.18							
	CH4 - Methane					0.0003							
	Carbon Monoxide					0.28							
	Carbon dioxide					325.2							
	Carbon-Related Exhaust Emissions					325							
	Drive Trace Absolute Speed Change Rating					2.48							
	Drive Trace Energy Economy Rating					0.08							
	Drive Trace Inertia Work Ratio Rating					3.31							
	Integrated Amp-hours					7.53							
	Manufacturer Fuel Economy					26.65							
	Nitrogen Oxide					0							
	Non-methane Hydrocarbon					0.0003							
	Non-methane organic gases					0.0003							
	Non-methane organic gases plus Nitrogen Oxides					999.999							
	Total Hydrocarbon					0.0005							
	Manufacturer Test Comments				2026MY Valhalla EDV								
	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 70	CREE	331	--	--	--	0	--	331	--	--	
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	325	--	--	--	0	--	325	--	--	
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	333	--	--	--	0	--	333	--	--	
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	134	--	--	--	0	--	134	--	--	
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	999.999	--	--	--	--	--	999.999	999.999	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	999.999	--	--	--	--	--	999.999	999.999	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	999.999	--	--	--	--	--	999.999	999.999	Pass	
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	999.999	--	--	--	--	--	999.999	999.999	Pass	

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Test #	TASX10092503	Test Procedure	81 - Charge Depleting UDDS
Exhaust Test # for this Evap Test	--	Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)
Test Date	10/28/2025	Fuel	Gasoline
Fuel Batch ID	60626	Fuel Calibration Number	2739
Vehicle Class	LDV/Passenger Car	DF Type	EPA Assigned
Verify Test Lab ID	IDIADA Automotive Technology SA		
E10 Evaporative Test Measurement Method	--		
Test Start Odometer Reading	4278	Odometer Units	M
4WD Test Dyno	Yes	Diesel Adjustment Factor Usage	--
State of Charge Delta	Yes		
Drive Cycle Speed Tolerance Criteria	Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec)	Road Speed Fan Usage	Yes
PHEV/EV Charge Depleting Test Information			
Recharge Event Voltage	409	Recharge Event Energy (kiloWatt-hours)	3.435
Charge Depleting Range (Calculated miles)	6.46	Charge Depleting Range (Actual miles)	6.46
Charge Depleting Range Highway (Calculated miles)	--	Derived 5-Cycle Coefficient Model Year	2017
All Electric Range Unadjusted (miles)	6.46	Equivalent All Electric Range (miles)	5.22
Number of Charge Depleting Bags/Phases Conducted	3	Transition Bag/Phase Number	2
Charge Depleting Bag/Phase #1			

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
	Test Result/Emission Name	Unrounded Test Result	
	Actual Distance Driven (miles)	7.41	
	Average System Voltage	410.13	
	CH4 - Methane	0.0062	
	Carbon Monoxide	0.26	
	Carbon dioxide	142.9	
	Carbon-Related Exhaust Emissions	118	
	Drive Trace Absolute Speed Change Rating	-0.394	
	Drive Trace Energy Economy Rating	-0.818	
	Drive Trace Inertia Work Ratio Rating	-0.956	
	Integrated Amp-hours	8.58	
	Manufacturer Fuel Economy	60.5	
	Nitrogen Oxide	0.012	
	Non-methane Hydrocarbon	0.0223	
	Non-methane organic gases	0.0245	
	Non-methane organic gases plus Nitrogen Oxides	999.999	
	Particulate Matter	0.0008	
	Total Hydrocarbon	0.0278	

Charge Depleting Bag/Phase #2

	Test Result/Emission Name	Unrounded Test Result
	Actual Distance Driven (miles)	7.42
	Average System Voltage	400.86
	CH4 - Methane	0.0014
	Carbon Monoxide	0.44
	Carbon dioxide	484.9
	Carbon-Related Exhaust Emissions	485
	Drive Trace Absolute Speed Change Rating	-0.036
	Drive Trace Energy Economy Rating	-0.507
	Drive Trace Inertia Work Ratio Rating	0.798
	Integrated Amp-hours	8.58
	Manufacturer Fuel Economy	17.87
	Nitrogen Oxide	0.0001
	Non-methane Hydrocarbon	0.0001
	Non-methane organic gases	0.0001
	Non-methane organic gases plus Nitrogen Oxides	999.999
	Particulate Matter	0.0001
	Total Hydrocarbon	0.0014

Charge Depleting Bag/Phase #3

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family					TASXR0138T3V				
		Test Result/Emission Name			Unrounded Test Result									
		Actual Distance Driven (miles)			7.42									
		Average System Voltage			401.29									
		CH4 - Methane			0.0011									
		Carbon Monoxide			0.52									
		Carbon dioxide			466.4									
		Carbon-Related Exhaust Emissions			466									
		Drive Trace Absolute Speed Change Rating			-0.547									
		Drive Trace Energy Economy Rating			-0.359									
		Drive Trace Inertia Work Ratio Rating			-0.301									
		Integrated Amp-hours			8.58									
		Manufacturer Fuel Economy			18.57									
		Nitrogen Oxide			0.0004									
		Non-methane Hydrocarbon			0.0003									
		Non-methane organic gases			0.0003									
		Non-methane organic gases plus Nitrogen Oxides			999.999									
		Particulate Matter			0.0006									
		Total Hydrocarbon			0.0013									
		Manufacturer Test Comments		2026MY Valhalla EDV										
		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 70	CREE	466	--	--	--	0	--	466	--	--
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	118	--	--	--	0	--	118	--	--		
Fed	150,000 miles	Federal Tier 3 Bin 70	CREE	485	--	--	--	0	--	485	--	--		
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	999.999	--	--	--	--	--	999.999	999.999	Pass		
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	999.999	--	--	--	--	--	999.999	999.999	Pass		
Fed	150,000 miles	Federal Tier 3 Bin 70	NMOG+NOX	999.999	--	--	--	--	--	999.999	999.999	Pass		

Certification Summary Information Report

Test Group	TASXV04.0AEH	Evaporative/Refueling Family	TASXR0138T3V
Fuel Properties			
Fuel Batch ID	60626	Fuel Calibration Number	2739
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	12/11/2023
Fuel Batch Calibration Effective Date	12/11/2023	Fuel Batch Calibration Ineffective Date	12/11/2026
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.825	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.72	Fuel Carbon Mass Fraction (E10)	0.825
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--
Fuel Batch ID	67414	Fuel Calibration Number	3406
Test Fuel Type	49 - Tier 3 E10 Premium Gasoline (9 RVP @Low Alt.)	Fuel Batch Calibration Date	11/19/2024
Fuel Batch Calibration Effective Date	11/19/2024	Fuel Batch Calibration Ineffective Date	11/19/2027
Carbon Weight Fraction NMHC	--	Carbon Weight Fraction HC	--
Exhaust Carbon Weight Fraction	0.829	Fuel Methanol Volume Fraction	--
Fuel Density (grams/cubic ft)	--	Fuel Specific Gravity	0.754
Fuel Ethanol Volume Percent (%)	9.7	Fuel Net Heating Value / Fuel Net Heat of Combustion (E0) (BTU/lb)	--
Fuel Net Heat of Combustion (E10) (MJ/kg)	41.775	Fuel Carbon Mass Fraction (E10)	0.829
Fuel Blend Carbon Weight Fraction / Fuel Carbon Mass Fraction (E0)	--	Weight Fraction CO2	--

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family		TASXR0138T3V		
Consolidated List of Standards									
Exhaust Standards									
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 70		
Fuel		Gasoline			Test Procedure		Cold CO		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	10
50,000 miles	CREE	--	--	--	--	--	--	0	999.999
50,000 miles	HC-NM	--	--	--	--	--	--	0	0.3
Cert Region		Federal			Cert/In-Use Code		Cert		
Vehicle Class		LDV/Passenger Car			Standard Level		Federal Tier 3 Bin 70		
Fuel		Gasoline			Test Procedure		US06		
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	9.6
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.007	0.084
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	--	0.006

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family			TASXR0138T3V	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			Charge Depleting Highway	
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	--	--	--	--	--	--	--	999.999
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HC-NM	--	--	--	--	--	--	--	999.999
150,000 miles	HC-TOTAL	--	--	--	--	--	--	--	999.999
150,000 miles	MFR FE	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	3.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.007	0.07
150,000 miles	NOX	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family			TASXR0138T3V	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			US06	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	9.6
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.007	0.084
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.006

Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			Charge Depleting UDDS	
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	--	--	--	--	--	--	--	999.999
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HC-NM	--	--	--	--	--	--	--	999.999
150,000 miles	HC-TOTAL	--	--	--	--	--	--	--	999.999
150,000 miles	MFR FE	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG	--	--	--	--	--	--	--	999.999
150,000 miles	NMOG+NOX	--	--	--	--	--	1	--	999.999
150,000 miles	NOX	--	--	--	--	--	--	--	999.999

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family			TASXR0138T3V	
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			SC03	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	3.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.007	0.07
150,000 miles	NOX	--	--	--	--	--	--	0	999.999
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.03	--	--	--	0.0026	999.999
150,000 miles	NMOG+NOX	--	--	1.03	--	--	--	0.007	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0043	999.999
Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			CA fuel 50 Deg(F) exhaust test	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	1.7
50,000 miles	CREE	--	--	--	--	--	--	0	999.999
50,000 miles	HCHO	--	--	--	--	--	--	0	0.016
50,000 miles	NMOG	--	--	--	--	--	--	0	999.999
50,000 miles	NMOG+NOX	--	1	1.1	--	--	--	0	0.14
50,000 miles	NOX	--	--	--	--	--	--	0	999.999

Certification Summary Information Report

Test Group		TASXV04.0AEH			Evaporative/Refueling Family			TASXR0138T3V	
Cert Region		Federal			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			Federal Tier 3 Bin 70	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7
150,000 miles	CO-COMP	--	--	--	--	--	--	0	4.2
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0	0.03
150,000 miles	N2O	--	--	--	--	--	--	0.0043	0.01
150,000 miles	NMOG	--	1	1.1	--	--	--	0.0026	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.007	0.070
150,000 miles	NMOG+NOX-COMP	--	--	1.1	--	--	--	0	0.050
150,000 miles	NOX	--	--	--	--	--	--	0.0043	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Cert Region		California + CAA Section 177 states			Cert/In-Use Code			Cert	
Vehicle Class		LDV/Passenger Car			Standard Level			California LEV-IV ULEV70	
Fuel		Gasoline			Test Procedure			Federal fuel 2-day exhaust (w/can load)	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CO	--	--	--	--	--	--	0.07	1.7
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	HCHO	--	--	--	--	--	--	0.0003	0.004
150,000 miles	METHANE	--	--	--	--	--	--	0	0.03
150,000 miles	N2O	--	--	--	--	--	--	0.004	0.01
150,000 miles	NMOG	--	1	1.1	--	--	--	0.0026	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.007	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0043	999.999
150,000 miles	PM	--	--	--	--	--	--	0	0.003

Certification Summary Information Report

Test Group	TASXV04.0AEH				Evaporative/Refueling Family			TASXR0138T3V	
Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV ULEV70	
Fuel	Gasoline				Test Procedure			HWFE	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
150,000 miles	CREE	--	--	--	--	--	--	0	999.999
150,000 miles	NMOG	--	--	1.1	--	--	--	0.0026	999.999
150,000 miles	NMOG+NOX	--	--	1.1	--	--	--	0.007	0.070
150,000 miles	NOX	--	--	--	--	--	--	0.0043	999.999

Cert Region	California + CAA Section 177 states				Cert/In-Use Code			Cert	
Vehicle Class	LDV/Passenger Car				Standard Level			California LEV-IV ULEV70	
Fuel	Gasoline				Test Procedure			Cold CO	
Useful Life	Emission Name	Rounded Result	RAF	NMOG / NMHC	Upward Diesel Adjustment Factor	Downward Diesel Adjustment Factor	Mult DF	Add DF	Std
50,000 miles	CO	--	--	--	--	--	--	0	10
50,000 miles	CREE	--	--	--	--	--	--	0	999.999
50,000 miles	HC-NM	--	--	--	--	--	--	0	0.3

Evaporative/Refueling Standards

Evaporative/Refueling Family		TASXR0138T3V		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result		Std	Add DF	
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--		0.02	0	

Evaporative/Refueling Family		TASXR0138T3V		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name		Rounded Result		Std	Add DF
Gasoline	150,000 miles	HC-TOTAL-EQUIV		--		0.375	0.003

Certification Summary Information Report

Test Group		TASXV04.0AEH		Evaporative/Refueling Family		TASXR0138T3V	
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Leak Test - Evap Fuel System OBD					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Evap Canister Bleed Test					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.02	0		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.2	0.005		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.375	0.0067		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		

Certification Summary Information Report

Test Group		TASXV04.0AEH		Evaporative/Refueling Family		TASXR0138T3V	
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		Federal	
Cert/In-Use Code		Cert		Standard Level		Federal Tier 3 Evap	
Test Procedure		Federal Fuel Running Loss					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.05	0		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		2-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.003		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Leak Test - Evap Fuel System OBD					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	LEAK-DIA	--	0.02	0		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel 3-day evap					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.400	0.0067		
Evaporative/Refueling Family		TASXR0138T3V		Cert Region		California + CAA Section 177 states	
Cert/In-Use Code		Cert		Standard Level		California LEV-IV Zero Evap (Option 2)	
Test Procedure		Federal fuel refueling test (ORVR)					
Fuel	Useful Life	Emission Name	Rounded Result	Std	Add DF		
Gasoline	150,000 miles	HC-TOTAL-EQUIV	--	0.2	0.005		

Certification Summary Information Report

Test Group		TASXV04.0AEH	Evaporative/Refueling Family		TASXR0138T3V
Glossary					
Useful Life					
4	4,000 miles		120	120,000 miles	
50	50,000 miles		150	150,000 miles	
100	100,000 miles				
Emission Name					
HC-TOTAL	Total Hydrocarbon		AS-VOLT	Average System Voltage	
CO	Carbon Monoxide		CO2 BAG 1	Bag 1 Carbon Dioxide	
CO2	Carbon dioxide		CO2 BAG 2	Bag 2 Carbon Dioxide	
CREE	Carbon-Related Exhaust Emissions		CO2 BAG 3	Bag 3 Carbon Dioxide	
OPT-CREE	Optional Carbon-Related Exhaust Emissions		CO2 BAG 4	Bag 4 Carbon Dioxide	
NOX	Nitrogen Oxide		NMOG+NOX	Non-methane organic gases plus Nitrogen Oxides	
PM	Particulate Matter		NMOG+NOX-COMP	SFTP Composite Non-methane Organic Gases + Nitrogen Oxides	
PM-COMP	SFTP Composite Particulate Matter		DT-IWRR	Drive Trace Inertia Work Ratio Rating	
HC-NM	Non-methane Hydrocarbon		DT-ASCR	Drive Trace Absolute Speed Change Rating	
OMHCE	Organic material Hydrocarbon Equivalent		DT-EER	Drive Trace Energy Economy Rating	
OMNMHCE	Organic material non-methane HC equivalent		COMB-CREE	Combined Carbon-Related Exhaust Emissions	
NMOG	Non-methane organic gases		COMB-OPT-CREE	Combined Optional Carbon-Related Exhaust Emissions	
HCHO	Formaldehyde		HC-TOTAL-EQUIV	Total Hydrocarbon equivalent - Evap only	
H3C2HO	Acetaldehyde		METHANE-COMB	Combined CH4 for HD 2b/3 vehicles only	
HC-NM+NOX	SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03		N2O-COMB	Combined Nitrous Oxide for HD 2b/3 vehicles only	
HC-NM+NOX-COMP	SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides		LEAK-DIA	Effective Leak Diameter (inches)	
CO-COMP	SFTP Composite Carbon Monoxide		LEAK-GAS CAP	Gas Cap Leakage (cc/min)	
ETHANOL	C2H5OH - Ethanol		CO2-COMB	Combined Carbon Dioxide for HD 2b/3 Vehicles Only	
FE BAG 1	Bag 1 Fuel Economy		KW-HRS	Integrated DC KW-HRS	
FE BAG 2	Bag 2 Fuel Economy		CH4 BAG 1	Bag 1 Methane	
FE BAG 3	Bag 3 Fuel Economy		CH4 BAG 2	Bag 2 Methane	
FE BAG 4	Bag 4 Fuel Economy		CH4 BAG 3	Bag 3 Methane	
MFR FE	Manufacturer Fuel Economy		CH4 BAG 4	Bag 4 Methane	
HC	Hydrocarbon for Running Loss and ORVR		CO BAG 1	Bag 1 Carbon Monoxide	
METHANE	CH4 - Methane		CO BAG 2	Bag 2 Carbon Monoxide	
METHANOL	CH3OH - Methanol		CO BAG 3	Bag 3 Carbon Monoxide	
N2O	Nitrous Oxide		CO BAG 4	Bag 4 Carbon Monoxide	
SPITBACK	Spitback Hydrocarbon in grams		NMOG BAG 1	Bag 1 Non-methane organic gases	
AMP-HRS	Integrated Amp-hours		NMOG BAG 2	Bag 2 Non-methane organic gases	
START-SOC	System Start State of Charge Watt-hours		NMOG BAG 3	Bag 3 Non-methane organic gases	
END-SOC	System End State of Charge Watt-hours		NMOG BAG 4	Bag 4 Non-methane organic gases	
ACT-DISTANCE	Actual Distance Driven (miles)				
Certification Region					

Certification Summary Information Report

Test Group		TASXV04.0AEH		Evaporative/Refueling Family		TASXR0138T3V	
CA	California + CAA Section 177 states	FA	Federal				
Exhaust Emission Standard Level							
B1	Federal Tier 2 Bin 1	T3B160	Federal Tier 3 Bin 160				
B2	Federal Tier 2 Bin 2	T3B125	Federal Tier 3 Bin 125				
B3	Federal Tier 2 Bin 3	T3B110	Federal Tier 3 Transitional Bin 110				
B4	Federal Tier 2 Bin 4	T3B85	Federal Tier 3 Transitional Bin 85				
B5	Federal Tier 2 Bin 5	T3SULEV30	Federal Tier 3 Transitional LEV-II SULEV30 Carryover				
B6	Federal Tier 2 Bin 6	T3B70	Federal Tier 3 Bin 70				
B7	Federal Tier 2 Bin 7	T3B50	Federal Tier 3 Bin 50				
B8	Federal Tier 2 Bin 8	T3B30	Federal Tier 3 Bin 30				
B9	Federal Tier 2 Bin 9	T3B20	Federal Tier 3 Bin 20				
B10	Federal Tier 2 Bin 10	T3B0	Federal Tier 3 Bin 0				
B11	Federal Tier 2 Bin 11	HDV2B395	Federal Tier 3 HD Class 2b Transitional Bin 395				
HDV1	HDV1 (Federal HD chassis Class 2b GVW 8501-10000)	HDV2B340	Federal Tier 3 HD Class 2b Transitional Bin 340				
HDV2	HDV2 (Federal HD chassis Class 3 GVW 10001-14000)	HDV2B250	Federal Tier 3 HD Class 2b Bin 250				
L2	California LEV-II LEV	HDV2B200	Federal Tier 3 HD Class 2b Bin 200				
L2OP	California LEV-II LEV Optional	HDV2B170	Federal Tier 3 HD Class 2b Bin 170				
U2	California LEV-II ULEV	HDV2B150	Federal Tier 3 HD Class 2b Bin 150				
S2	California LEV-II SULEV	HDV2B0	Federal Tier 3 HD Class 2b Bin 0				
ZEV	California ZEV	HDV3B630	Federal Tier 3 HD Class 3 Transitional Bin 630				
OT	Other	HDV3B570	Federal Tier 3 HD Class 3 Transitional Bin 570				
T1	Federal Tier 1	HDV3B400	Federal Tier 3 HD Class 3 Bin 400				
PZEV	California PZEV	HDV3B270	Federal Tier 3 HD Class 3 Bin 270				
L2LEV160	California LEV-II LEV160	HDV3B230	Federal Tier 3 HD Class 3 Bin 230				
L2ULEV125	California LEV-II ULEV125	HDV3B200	Federal Tier 3 HD Class 3 Bin 200				
L2SULEV30	California LEV-II SULEV30	HDV3B0	Federal Tier 3 HD Class 3 Bin 0				
L2LEV395	California LEV-II LEV395	L4SULEV100	California LEV-IV SULEV100				
L2ULEV340	California LEV-II ULEV340	L4SULEV125	California LEV-IV SULEV125				
L2LEV630	California LEV-II LEV630	L4SULEV15	California LEV-IV SULEV15				
L2ULEV570	California LEV-II ULEV570	L4SULEV150	California LEV-IV SULEV150				
L3LEV160	California LEV-III LEV160	L4SULEV170	California LEV-IV SULEV170				
L3ULEV125	California LEV-III ULEV125	L4SULEV175	California LEV-IV SULEV175				
L3ULEV70	California LEV-III ULEV70	L4SULEV20	California LEV-IV SULEV20				
L3ULEV50	California LEV-III ULEV50	L4SULEV200	California LEV-IV SULEV200				
L3SULEV30	California LEV-III SULEV30	L4SULEV230	California LEV-IV SULEV230				
L3SULEV20	California LEV-III SULEV20	L4SULEV25	California LEV-IV SULEV25				
L3LEV395	California LEV-III LEV395	L4SULEV30	California LEV-IV SULEV30				
L3ULEV340	California LEV-III ULEV340	L4SULEV75	California LEV-IV SULEV75				
L3ULEV250	California LEV-III ULEV250	L4SULEV85	California LEV-IV SULEV85				
L3ULEV200	California LEV-III ULEV200	L4ULEV125	California LEV-IV ULEV125				

Certification Summary Information Report

Test Group		TASXV04.0AEH	Evaporative/Refueling Family		TASXR0138T3V
L3SULEV170	California LEV-III SULEV170		L4ULEV200	California LEV-IV ULEV200	
L3SULEV150	California LEV-III SULEV150		L4ULEV250	California LEV-IV ULEV250	
L3LEV630	California LEV-III LEV630		L4ULEV270	California LEV-IV ULEV270	
L3ULEV570	California LEV-III ULEV570		L4ULEV40	California LEV-IV ULEV40	
L3ULEV400	California LEV-III ULEV400		L4ULEV400	California LEV-IV ULEV400	
L3ULEV270	California LEV-III ULEV270		L4ULEV50	California LEV-IV ULEV50	
L3SULEV230	California LEV-III SULEV230		L4ULEV60	California LEV-IV ULEV60	
L3SULEV200	California LEV-III SULEV200		L4ULEV70	California LEV-IV ULEV70	
Transmission Type Code					
AMS	Automated Manual- Selectable (e.g. Automated Manual with paddles)	M	Manual		
A	Automatic	OT	Other		
AM	Automated Manual	SA	Semi-Automatic		
CVT	Continuously Variable	SCV	Selectable Continuously Variable (e.g. CVT with paddles)		
Drive System Code					
4	4-Wheel Drive	P	Part-time 4-Wheel Drive		
F	2-Wheel Drive, Front	A	All Wheel Drive		
R	2-Wheel Drive, Rear				
Additional Terms and Acronyms					
AFC	Alternative Fuel Converter	ICI	Independent Commercial Importer		
CSI	Certificate Summary Information	ORVR	Onboard Refueling Vapor Recovery		
DF	Deterioration Factor	SIL	Shift Indicator Light		
Evap	Evaporation, Evaporative	Trans	Transmission		