

Certification Summary Information Report

| | | | | | | | | | | | |
|--|-----------------|------------------|-------------------------------------|---------------------|--|---------------------|------------------------------|----------------------------------|---------------------------------|-------------------------------------|------------------------------|
| Test Group | | VHYXV00.0303 | | | Evaporative/Refueling Family | | -- | | | | |
| Models Covered by this Certificate | | | | | | | | | | | |
| Carline Manufacturer | Division | Carline | Certification Region Code(s) | Drive System | Trans - Type | - # of Gears | Trans - Lockup | | | | |
| Hyundai Motor Company | 2 - GENESIS | 204 - GV60 Magma | Federal | All Wheel Drive | Automatic | 1 | No | | | | |
| Hyundai Motor Company | 2 - GENESIS | 204 - GV60 Magma | California + CAA Section 177 states | All Wheel Drive | Automatic | 1 | No | | | | |
| Engine Description | | | | | | | | | | | |
| Hybrid Type | | -- | | | Hybrid Description | | -- | | | | |
| Engine Type | | -- | | | Mfr Engine Description | | -- | | | | |
| Engine Block Arrangement | | -- | | | Mfr Engine Block Arrangement Description | | -- | | | | |
| Camless Valvetrain Indicator | | -- | | | Oil Viscosity/Classification | | -- | | | | |
| Number of Cylinders/Rotors | | -- | | | Mechanically Variable Compression Ratio Indicator | | -- | | | | |
| After Treatment Device(s) (ATD) | | | | | | | | | | | |
| Mfr After Treatment Device (ATD) Comments | | -- | | | | | | | | | |
| Direct Ozone Reduction (DOR) Device | | -- | | | | | | | | | |
| Mfr Emission Control Device Comments | | -- | | | | | | | | | |
| 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 | | -- | -- | -- | -- | -- | -- | -- | -- | -- | -- |

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| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- |
|--|--|--|-------|
| 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 | 697 | Battery Energy Capacity | 120.6 |
| Battery Specific Energy | 171.9 | Battery Charger Type | Both |
| Number of Capacitors | -- | Capacitor Rating (In Farads) | -- |
| Mfr Capacitor Comments | -- | | |
| Hydraulic System Description | -- | | |
| Regenerative Braking Type | Electrical Regen Brake | | |
| Regenerative Braking Source | Both | Driver Controlled Regenerative Braking | Yes |
| Mfr Regenerative Braking Description | -- | | |
| Drive Motor(s)/Generator(s) | 2 | | |
| Motor/Generator Type 1 | PMSM | Rated Motor/Generator Power | 166 |
| Motor/Generator Type 2 | PMSM | Rated Motor/Generator Power | 282 |
| Mfr Fuel Cell Description | -- | | |
| Fuel Cell On-Board H2 Storage Capacity (kg) | -- | Usable H2 Fill Capacity (kg) | -- |
| Mfr Hybrid Electric/ Electric Vehicle Comments | PMSM : Permanent Magnet Synchronous Motor Motor Power is temporarily increased to 175kW(front), 303kW(rear) in boost mode. | | |

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| Test Group | VHYXV00.0303 | | Evaporative/Refueling Family | -- | | | | | | | |
|---|---|--------------------|---|-----------------|--------------------|------------------------|--|------|---|----------------|-------------|
| Emission Data Vehicle Information | | | | | | | | | | | |
| Vehicle ID / Configuration | JWU648EAC007A / 0 | | Manufacturer Vehicle Configuration Number | 0 | | | | | | | |
| Original Test Group Name | VHYXV00.0303 | | Original Evaporative/Refueling Family | -- | | | | | | | |
| Original Test Vehicle Model Year | 2027 | | | | | | | | | | |
| Vehicle Model | | | | | | | | | | | |
| Represented Test Vehicle Make | Genesis | | Represented Test Vehicle Model | GV60 Magma | | | | | | | |
| Leak Family Details | | | | | | | | | | | |
| Leak Family Identifier | -- | | Leak Family Name | -- | | | | | | | |
| Drive Sources and Fuel System Details | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Drive Source and Fuel#</th> <th>Drive Source</th> <th>Fuel</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table> | | | | | | Drive Source and Fuel# | Drive Source | Fuel | 1 | Electric Motor | Electricity |
| Drive Source and Fuel# | Drive Source | Fuel | | | | | | | | | |
| 1 | Electric Motor | Electricity | | | | | | | | | |
| Hybrid Indicator | No | | Multiple Fuel Combustion | -- | | | | | | | |
| Multiple Fuel Storage | -- | | Rechargeable Energy Storage System Indicator | Yes | | | | | | | |
| Fuel Cell Indicator | No | | Rechargeable Energy Storage System, if 'Other' | -- | | | | | | | |
| Rechargeable Energy Storage System | Battery(s) | | | | | | | | | | |
| Off-board charge Capable Indicator | Yes | | Odometer Correction Factor | 0.9854 | | | | | | | |
| Odometer Correction -- Initial | 0 | | | | | | | | | | |
| Odometer Correction Sign | + = System Miles is equal to (Test odometer reading * Correction factor) + Initial system miles | | | | | | | | | | |
| Odometer Correction Units | Miles | | | | | | | | | | |
| Engine Code | DF8K | | Rated Horsepower | 601 | | | | | | | |
| Displacement (liters) | 0.001 | | | | | | | | | | |
| Air Aspiration Method | Naturally Aspirated | | Air Aspiration Method, if 'Other' | | | | | | | | |
| Number of Air Aspiration Devices | -- | | Air Aspiration Device Configuration | -- | | | | | | | |
| Charge Air Cooler Type | -- | | Drive Mode While Testing | All Wheel Drive | | | | | | | |
| Shift Indicator Light Usage | Not equipped | | Aged Emission Components | 4,000 (mi) | | | | | | | |
| Curb Weight (lbs) | 4938 | | Equivalent Test Weight (pounds) | 5250 | | | | | | | |
| GVWR (lbs) | 5908 | | N/V Ratio | 128.6 | | | | | | | |
| Axle Ratio | 4.71 | | | | | | | | | | |
| Transmission Type | Automatic | | # of Transmission Gears | 1 | | | | | | | |
| Transmission Lockup | No | | Creeper Gear | No | | | | | | | |
| Dynamometer Coefficients: | | | | | | | | | | | |
| Target Coefficients | | | Set Coefficients | | | | | | | | |
| Coefficient Category | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | A (lbf) | B (lbf/mph) | C (lbf/mph**2) | EPA Calculated Total Road Load Horse Power for City/Highway/Evap Coefficients | | | | |
| City/Highway/Evap | 47.035 | 0.22311 | 0.024006 | -11.255 | 0.15732 | 0.022706 | 15.8 | | | | |
| Emission Control Device Comments | | | | | | | | | | | |
| This vehicle has two motors (front : 223hp / rear : 378hp) Power will be temporarily increased in boost mode (front : 235hp, rear : 406hp) | | | | | | | | | | | |

Certification Summary Information Report

| | | | |
|---|--------------------------|-------------------------------------|----|
| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- |
| Manufacturer Test Vehicle Comments | 27MY GV60(JW) Magma 21in | | |

Certification Summary Information Report

| | | | |
|--|---|---|------------------------------------|
| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- |
| Test # | VHYX10092909 | Test Procedure | 77 - Multi-Cycle Test (MCT) |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 62 - Electricity |
| Test Date | 12/10/2025 | Fuel | Electricity |
| Fuel Batch ID | -- | Fuel Calibration Number | -- |
| Vehicle Class | LDV/Passenger Car | DF Type | Mfr. Determined |
| Verify Test Lab ID | 772-1, Jangduck-Dong | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 2092 | 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 | 220 | Recharge Event Energy (kiloWatt-hours) | 94.6538 |
| Charge Depleting Range (Calculated miles) | 343.393 | Charge Depleting Range (Actual miles) | 343.393 |
| Charge Depleting Range Highway (Calculated miles) | 294.937 | Derived 5-Cycle Coefficient Model Year | -- |
| All Electric Range Unadjusted (miles) | -- | Equivalent All Electric Range (miles) | 343.393 |
| Number of Charge Depleting Bags/Phases Conducted | 8 | Transition Bag/Phase Number | -- |
| Charge Depleting Bag/Phase #1 | | | |
| Test Result/Emission Name | | Unrounded Test Result | |
| Actual Distance Driven (miles) | | 7.429 | |
| Carbon Monoxide | | 0 | |
| Carbon-Related Exhaust Emissions | | 0 | |
| Drive Trace Absolute Speed Change Rating | | -4.77 | |
| Drive Trace Energy Economy Rating | | -3.53 | |
| Drive Trace Inertia Work Ratio Rating | | -5.72 | |
| Integrated DC KW-HRS | | 2.01064 | |
| Manufacturer Fuel Economy | | 27.0647462 | |
| Charge Depleting Bag/Phase #2 | | | |

Certification Summary Information Report

| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- | | | | | | | | | | | | | | | | | | |
|--|-----------------------|------------------------------|----|---------------------------|-----------------------|--------------------------------|---------|-----------------|---|----------------------------------|---|--|-------|-----------------------------------|-------|---------------------------------------|-------|----------------------|----------|---------------------------|------------|
| <table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>10.257</td> </tr> <tr> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>-4.33</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>-1.37</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>-4.93</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>2.98822</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>29.1334708</td> </tr> </tbody> </table> | | | | Test Result/Emission Name | Unrounded Test Result | Actual Distance Driven (miles) | 10.257 | Carbon Monoxide | 0 | Carbon-Related Exhaust Emissions | 0 | Drive Trace Absolute Speed Change Rating | -4.33 | Drive Trace Energy Economy Rating | -1.37 | Drive Trace Inertia Work Ratio Rating | -4.93 | Integrated DC KW-HRS | 2.98822 | Manufacturer Fuel Economy | 29.1334708 |
| Test Result/Emission Name | Unrounded Test Result | | | | | | | | | | | | | | | | | | | | |
| Actual Distance Driven (miles) | 10.257 | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | 0 | | | | | | | | | | | | | | | | | | | | |
| Carbon-Related Exhaust Emissions | 0 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Absolute Speed Change Rating | -4.33 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Energy Economy Rating | -1.37 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Inertia Work Ratio Rating | -4.93 | | | | | | | | | | | | | | | | | | | | |
| Integrated DC KW-HRS | 2.98822 | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Fuel Economy | 29.1334708 | | | | | | | | | | | | | | | | | | | | |
| Charge Depleting Bag/Phase #3 | | | | | | | | | | | | | | | | | | | | | |
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| Test Result/Emission Name | Unrounded Test Result | | | | | | | | | | | | | | | | | | | | |
| Actual Distance Driven (miles) | 7.431 | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | 0 | | | | | | | | | | | | | | | | | | | | |
| Carbon-Related Exhaust Emissions | 0 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Absolute Speed Change Rating | -4.87 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Energy Economy Rating | -3.52 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Inertia Work Ratio Rating | -5.64 | | | | | | | | | | | | | | | | | | | | |
| Integrated DC KW-HRS | 1.87244 | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Fuel Economy | 25.1976863 | | | | | | | | | | | | | | | | | | | | |
| Charge Depleting Bag/Phase #4 | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Test Result/Emission Name</th> <th>Unrounded Test Result</th> </tr> </thead> <tbody> <tr> <td>Actual Distance Driven (miles)</td> <td>173.358</td> </tr> <tr> <td>Carbon Monoxide</td> <td>0</td> </tr> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> </tr> <tr> <td>Drive Trace Absolute Speed Change Rating</td> <td>71.65</td> </tr> <tr> <td>Drive Trace Energy Economy Rating</td> <td>0</td> </tr> <tr> <td>Drive Trace Inertia Work Ratio Rating</td> <td>0</td> </tr> <tr> <td>Integrated DC KW-HRS</td> <td>61.06193</td> </tr> <tr> <td>Manufacturer Fuel Economy</td> <td>35.2230246</td> </tr> </tbody> </table> | | | | Test Result/Emission Name | Unrounded Test Result | Actual Distance Driven (miles) | 173.358 | Carbon Monoxide | 0 | Carbon-Related Exhaust Emissions | 0 | Drive Trace Absolute Speed Change Rating | 71.65 | Drive Trace Energy Economy Rating | 0 | Drive Trace Inertia Work Ratio Rating | 0 | Integrated DC KW-HRS | 61.06193 | Manufacturer Fuel Economy | 35.2230246 |
| Test Result/Emission Name | Unrounded Test Result | | | | | | | | | | | | | | | | | | | | |
| Actual Distance Driven (miles) | 173.358 | | | | | | | | | | | | | | | | | | | | |
| Carbon Monoxide | 0 | | | | | | | | | | | | | | | | | | | | |
| Carbon-Related Exhaust Emissions | 0 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Absolute Speed Change Rating | 71.65 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Energy Economy Rating | 0 | | | | | | | | | | | | | | | | | | | | |
| Drive Trace Inertia Work Ratio Rating | 0 | | | | | | | | | | | | | | | | | | | | |
| Integrated DC KW-HRS | 61.06193 | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Fuel Economy | 35.2230246 | | | | | | | | | | | | | | | | | | | | |
| Charge Depleting Bag/Phase #5 | | | | | | | | | | | | | | | | | | | | | |

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| | | | |
|-------------------|--------------|------------------------------|----|
| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- |
|-------------------|--------------|------------------------------|----|

| Test Result/Emission Name | Unrounded Test Result |
|--|-----------------------|
| Actual Distance Driven (miles) | 7.432 |
| Carbon Monoxide | 0 |
| Carbon-Related Exhaust Emissions | 0 |
| Drive Trace Absolute Speed Change Rating | -4.86 |
| Drive Trace Energy Economy Rating | -3.5 |
| Drive Trace Inertia Work Ratio Rating | -5.68 |
| Integrated DC KW-HRS | 1.77418 |
| Manufacturer Fuel Economy | 23.872137 |

Charge Depleting Bag/Phase #6

| Test Result/Emission Name | Unrounded Test Result |
|--|-----------------------|
| Actual Distance Driven (miles) | 10.257 |
| Carbon Monoxide | 0 |
| Carbon-Related Exhaust Emissions | 0 |
| Drive Trace Absolute Speed Change Rating | -4.31 |
| Drive Trace Energy Economy Rating | -1.35 |
| Drive Trace Inertia Work Ratio Rating | -4.92 |
| Integrated DC KW-HRS | 2.8611 |
| Manufacturer Fuel Economy | 27.8940928 |

Charge Depleting Bag/Phase #7

| Test Result/Emission Name | Unrounded Test Result |
|--|-----------------------|
| Actual Distance Driven (miles) | 7.432 |
| Carbon Monoxide | 0 |
| Carbon-Related Exhaust Emissions | 0 |
| Drive Trace Absolute Speed Change Rating | -4.89 |
| Drive Trace Energy Economy Rating | -3.5 |
| Drive Trace Inertia Work Ratio Rating | -5.67 |
| Integrated DC KW-HRS | 1.79942 |
| Manufacturer Fuel Economy | 24.2117427 |

Charge Depleting Bag/Phase #8

Certification Summary Information Report

| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- |
|-----------------------------------|--|------------------------------|----|
| | Test Result/Emission Name | Unrounded Test Result | |
| | Actual Distance Driven (miles) | 27.357 | |
| | Carbon Monoxide | 0 | |
| | Carbon-Related Exhaust Emissions | 0 | |
| | Drive Trace Absolute Speed Change Rating | 9.76 | |
| | Drive Trace Energy Economy Rating | -0.24 | |
| | Drive Trace Inertia Work Ratio Rating | 19.52 | |
| | Integrated DC KW-HRS | 9.72979 | |
| | Manufacturer Fuel Economy | 35.5660146 | |
| Manufacturer Test Comments | 27MY JW Magma AWD 21in MCT Data over '99.99' have been set as '0' due to technical restrictions, but have actually obtained the following results: -> Charge Depleting Bag / Phase #4 DT-IWRR = 143.30 | | |

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| Test Group | | VHYXV00.0303 | | | | Evaporative/Refueling Family | | | | -- | | |
|----------------------|---------------|----------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 0 | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CO | 0 | -- | -- | -- | 0 | -- | 0 | 0 | Pass |
| CA | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| CA | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |

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| Test Group | | VHYXV00.0303 | | | Evaporative/Refueling Family | | | | | -- | | |
|----------------------|---------------|----------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| CA | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| CA | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| CA | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| CA | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |
| CA | 150,000 miles | California ZEV | CREE | 0 | -- | -- | -- | 0 | -- | 0 | -- | -- |

Fuel Properties

Certification Summary Information Report

| | | | | | | | | | | |
|---------------------------------------|----------------------|-------------------------------------|------------|--------------------|--|--|----------------|----------------------------------|------------|--|
| Test Group | | VHYXV00.0303 | | | Evaporative/Refueling Family | | | -- | | |
| Consolidated List of Standards | | | | | | | | | | |
| Exhaust Standards | | | | | | | | | | |
| Cert Region | | California + CAA Section 177 states | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | LDV/Passenger Car | | | Standard Level | | | California ZEV | | |
| Fuel | | Electricity | | | Test Procedure | | | Multi-Cycle Test (MCT) | | |
| 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 | 0 | |
| 150,000 miles | CREE | -- | -- | -- | -- | -- | -- | 0 | 0 | |
| Exhaust Standards | | | | | | | | | | |
| Cert Region | | Federal | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | LDV/Passenger Car | | | Standard Level | | | Federal Tier 3 Bin 0 | | |
| Fuel | | Electricity | | | Test Procedure | | | CVS 75 and later (w/o 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 | 0 | |
| Exhaust Standards | | | | | | | | | | |
| Cert Region | | California + CAA Section 177 states | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | LDV/Passenger Car | | | Standard Level | | | California ZEV | | |
| Fuel | | Electricity | | | Test Procedure | | | CVS 75 and later (w/o 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 | 0 | |
| Exhaust Standards | | | | | | | | | | |
| Cert Region | | Federal | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | LDV/Passenger Car | | | Standard Level | | | Federal Tier 3 Bin 0 | | |
| Fuel | | Electricity | | | Test Procedure | | | Multi-Cycle Test (MCT) | | |
| 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 | 0 | |
| 150,000 miles | CREE | -- | -- | -- | -- | -- | -- | 0 | 0 | |

Certification Summary Information Report

| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- |
|----------------------|---|------------------------------|--|
| Glossary | | | |
| Useful Life | | | |
| 4 | 4,000 miles | 120 | 120,000 miles |
| 50 | 50,000 miles | 150 | 150,000 miles |
| 100 | 100,000 miles | | |
| Emission Name | | | |
| HC-TOTAL | Total Hydrocarbon | COMB-CREE | Combined Carbon-Related Exhaust Emissions |
| CO | Carbon Monoxide | COMB-OPT-CREE | Combined Optional Carbon-Related Exhaust Emissions |
| CO2 | Carbon dioxide | HC-TOTAL-EQUIV | Total Hydrocarbon equivalent - Evap only |
| CREE | Carbon-Related Exhaust Emissions | METHANE-COMB | Combined CH4 for HD 2b/3 vehicles only |
| OPT-CREE | Optional Carbon-Related Exhaust Emissions | N2O-COMB | Combined Nitrous Oxide for HD 2b/3 vehicles only |
| NOX | Nitrogen Oxide | LEAK-DIA | Effective Leak Diameter (inches) |
| PM | Particulate Matter | LEAK-GAS CAP | Gas Cap Leakage (cc/min) |
| PM-COMP | SFTP Composite Particulate Matter | CO2-COMB | Combined Carbon Dioxide for HD 2b/3 Vehicles Only |
| HC-NM | Non-methane Hydrocarbon | KW-HRS | Integrated DC KW-HRS |
| OMHCE | Organic material Hydrocarbon Equivalent | CH4 BAG 1 | Bag 1 Methane |
| OMNMHCE | Organic material non-methane HC equivalent | CH4 BAG 2 | Bag 2 Methane |
| NMOG | Non-methane organic gases | CH4 BAG 3 | Bag 3 Methane |
| HCHO | Formaldehyde | CH4 BAG 4 | Bag 4 Methane |
| H3C2HO | Acetaldehyde | CO BAG 1 | Bag 1 Carbon Monoxide |
| HC-NM+NOX | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | CO BAG 2 | Bag 2 Carbon Monoxide |
| HC-NM+NOX-COMP | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides | CO BAG 3 | Bag 3 Carbon Monoxide |
| CO-COMP | SFTP Composite Carbon Monoxide | CO BAG 4 | Bag 4 Carbon Monoxide |
| ETHANOL | C2H5OH - Ethanol | NMOG BAG 1 | Bag 1 Non-methane organic gases |
| FE BAG 1 | Bag 1 Fuel Economy | NMOG BAG 2 | Bag 2 Non-methane organic gases |
| FE BAG 2 | Bag 2 Fuel Economy | NMOG BAG 3 | Bag 3 Non-methane organic gases |
| FE BAG 3 | Bag 3 Fuel Economy | NMOG BAG 4 | Bag 4 Non-methane organic gases |
| FE BAG 4 | Bag 4 Fuel Economy | ACT-DISTANCE BAG 1 | Bag 1 Actual Distance |
| MFR FE | Manufacturer Fuel Economy | ACT-DISTANCE BAG 2 | Bag 2 Actual Distance |
| HC | Hydrocarbon for Running Loss and ORVR | ACT-DISTANCE BAG 3 | Bag 3 Actual Distance |
| METHANE | CH4 - Methane | ACT-DISTANCE BAG 4 | Bag 4 Actual Distance |
| METHANOL | CH3OH - Methanol | HC-TOTAL BAG 1 | Bag 1 Total Hydrocarbon |
| N2O | Nitrous Oxide | HC-TOTAL BAG 2 | Bag 2 Total Hydrocarbon |
| SPITBACK | Spitback Hydrocarbon in grams | HC-TOTAL BAG 3 | Bag 3 Total Hydrocarbon |
| AMP-HRS | Integrated Amp-hours | HC-TOTAL BAG 4 | Bag 4 Total Hydrocarbon |
| START-SOC | System Start State of Charge Watt-hours | WATT-HRS BAG 1 | Bag 1 Watt Hours |
| END-SOC | System End State of Charge Watt-hours | WATT-HRS BAG 2 | Bag 2 Watt Hours |

Certification Summary Information Report

| Test Group | | VHYXV00.0303 | Evaporative/Refueling Family | | -- |
|--|--|--------------|------------------------------|---|----|
| ACT-DISTANCE | Actual Distance Driven (miles) | | WATT-HRS BAG 3 | Bag 3 Watt Hours | |
| AS-VOLT | Average System Voltage | | WATT-HRS BAG 4 | Bag 4 Watt Hours | |
| CO2 BAG 1 | Bag 1 Carbon Dioxide | | WATT-HRS | Watt Hours | |
| CO2 BAG 2 | Bag 2 Carbon Dioxide | | HC-NM BAG 1 | Bag 1 Non-methane Hydrocarbon | |
| CO2 BAG 3 | Bag 3 Carbon Dioxide | | HC-NM BAG 2 | Bag 2 Non-methane Hydrocarbon | |
| CO2 BAG 4 | Bag 4 Carbon Dioxide | | HC-NM BAG 3 | Bag 3 Non-methane Hydrocarbon | |
| NMOG+NOX | Non-methane organic gases plus Nitrogen Oxides | | HC-NM BAG 4 | Bag 4 Non-methane Hydrocarbon | |
| NMOG+NOX-COMP | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides | | N2O BAG 1 | Bag 1 Nitrous Oxide | |
| DT-IWRR | Drive Trace Inertia Work Ratio Rating | | N2O BAG 2 | Bag 2 Nitrous Oxide | |
| DT-ASCR | Drive Trace Absolute Speed Change Rating | | N2O BAG 3 | Bag 3 Nitrous Oxide | |
| DT-EER | Drive Trace Energy Economy Rating | | N2O BAG 4 | Bag 4 Nitrous Oxide | |
| Certification Region | | | | | |
| CA | California + CAA Section 177 states | | FA | Federal | |
| Exhaust Emission Standard Level | | | | | |
| B1 | Federal Tier 2 Bin 1 | | HDV2B340 | Federal Tier 3 HD Class 2b Transitional Bin 340 | |
| B2 | Federal Tier 2 Bin 2 | | HDV2B250 | Federal Tier 3 HD Class 2b Bin 250 | |
| B3 | Federal Tier 2 Bin 3 | | HDV2B200 | Federal Tier 3 HD Class 2b Bin 200 | |
| B4 | Federal Tier 2 Bin 4 | | HDV2B170 | Federal Tier 3 HD Class 2b Bin 170 | |
| B5 | Federal Tier 2 Bin 5 | | HDV2B150 | Federal Tier 3 HD Class 2b Bin 150 | |
| B6 | Federal Tier 2 Bin 6 | | HDV2B0 | Federal Tier 3 HD Class 2b Bin 0 | |
| B7 | Federal Tier 2 Bin 7 | | HDV3B630 | Federal Tier 3 HD Class 3 Transitional Bin 630 | |
| B8 | Federal Tier 2 Bin 8 | | HDV3B570 | Federal Tier 3 HD Class 3 Transitional Bin 570 | |
| B9 | Federal Tier 2 Bin 9 | | HDV3B400 | Federal Tier 3 HD Class 3 Bin 400 | |
| B10 | Federal Tier 2 Bin 10 | | HDV3B270 | Federal Tier 3 HD Class 3 Bin 270 | |
| B11 | Federal Tier 2 Bin 11 | | HDV3B230 | Federal Tier 3 HD Class 3 Bin 230 | |
| HDV1 | HDV1 (Federal HD chassis Class 2b GVW 8501-10000) | | HDV3B200 | Federal Tier 3 HD Class 3 Bin 200 | |
| HDV2 | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) | | HDV3B0 | Federal Tier 3 HD Class 3 Bin 0 | |
| L2 | California LEV-II LEV | | L4SULEV100 | California LEV-IV SULEV100 | |
| L2OP | California LEV-II LEV Optional | | L4SULEV125 | California LEV-IV SULEV125 | |
| U2 | California LEV-II ULEV | | L4SULEV15 | California LEV-IV SULEV15 | |
| S2 | California LEV-II SULEV | | L4SULEV150 | California LEV-IV SULEV150 | |
| ZEV | California ZEV | | L4SULEV170 | California LEV-IV SULEV170 | |
| OT | Other | | L4SULEV175 | California LEV-IV SULEV175 | |
| T1 | Federal Tier 1 | | L4SULEV20 | California LEV-IV SULEV20 | |
| PZEV | California PZEV | | L4SULEV200 | California LEV-IV SULEV200 | |
| L2LEV160 | California LEV-II LEV160 | | L4SULEV230 | California LEV-IV SULEV230 | |
| L2ULEV125 | California LEV-II ULEV125 | | L4SULEV25 | California LEV-IV SULEV25 | |
| L2SULEV30 | California LEV-II SULEV30 | | L4SULEV30 | California LEV-IV SULEV30 | |
| L2LEV395 | California LEV-II LEV395 | | L4SULEV75 | California LEV-IV SULEV75 | |

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| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | -- |
|-------------------------------|---|------------------------------|--|
| L2ULEV340 | California LEV-II ULEV340 | L4SULEV85 | California LEV-IV SULEV85 |
| L2LEV630 | California LEV-II LEV630 | L4ULEV125 | California LEV-IV ULEV125 |
| L2ULEV570 | California LEV-II ULEV570 | L4ULEV200 | California LEV-IV ULEV200 |
| L3LEV160 | California LEV-III LEV160 | L4ULEV250 | California LEV-IV ULEV250 |
| L3ULEV125 | California LEV-III ULEV125 | L4ULEV270 | California LEV-IV ULEV270 |
| L3ULEV70 | California LEV-III ULEV70 | L4ULEV40 | California LEV-IV ULEV40 |
| L3ULEV50 | California LEV-III ULEV50 | L4ULEV400 | California LEV-IV ULEV400 |
| L3SULEV30 | California LEV-III SULEV30 | L4ULEV50 | California LEV-IV ULEV50 |
| L3SULEV20 | California LEV-III SULEV20 | L4ULEV60 | California LEV-IV ULEV60 |
| L3LEV395 | California LEV-III LEV395 | L4ULEV70 | California LEV-IV ULEV70 |
| L3ULEV340 | California LEV-III ULEV340 | T4B170 | Federal Tier 4 MDV Bin 170 |
| L3ULEV250 | California LEV-III ULEV250 | T4B150 | Federal Tier 4 MDV Bin 150 |
| L3ULEV200 | California LEV-III ULEV200 | T4B125 | Federal Tier 4 MDV Bin 125 |
| L3SULEV170 | California LEV-III SULEV170 | T4B100 | Federal Tier 4 MDV Bin 100 |
| L3SULEV150 | California LEV-III SULEV150 | T4B85 | Federal Tier 4 MDV Bin 85 |
| L3LEV630 | California LEV-III LEV630 | T4B75 | Federal Tier 4 MDV Bin 75 |
| L3ULEV570 | California LEV-III ULEV570 | T4B70 | Federal Tier 4 Bin 70 |
| L3ULEV400 | California LEV-III ULEV400 | T4B65 | Federal Tier 4 Bin 65 |
| L3ULEV270 | California LEV-III ULEV270 | T4B60 | Federal Tier 4 Bin 60 |
| L3SULEV230 | California LEV-III SULEV230 | T4B55 | Federal Tier 4 Bin 55 |
| L3SULEV200 | California LEV-III SULEV200 | T4B50 | Federal Tier 4 Bin 50 |
| T3B160 | Federal Tier 3 Bin 160 | T4B45 | Federal Tier 4 Bin 45 |
| T3B125 | Federal Tier 3 Bin 125 | T4B40 | Federal Tier 4 Bin 40 |
| T3B110 | Federal Tier 3 Transitional Bin 110 | T4B35 | Federal Tier 4 Bin 35 |
| T3B85 | Federal Tier 3 Transitional Bin 85 | T4B30 | Federal Tier 4 Bin 30 |
| T3SULEV30 | Federal Tier 3 Transitional LEV-II SULEV30 Carryover | T4B25 | Federal Tier 4 Bin 25 |
| T3B70 | Federal Tier 3 Bin 70 | T4B20 | Federal Tier 4 Bin 20 |
| T3B50 | Federal Tier 3 Bin 50 | T4B15 | Federal Tier 4 Bin 15 |
| T3B30 | Federal Tier 3 Bin 30 | T4B10 | Federal Tier 4 Bin 10 |
| T3B20 | Federal Tier 3 Bin 20 | T4B5 | Federal Tier 4 Bin 5 |
| T3B0 | Federal Tier 3 Bin 0 | T4B0 | Federal Tier 4 Bin 0 |
| HDV2B395 | Federal Tier 3 HD Class 2b Transitional Bin 395 | | |
| Transmission Type Code | | | |
| AMS | Automated Manual- Selectable (e.g. Automated Manual with paddles) | M | Manual |
| A | Automatic | OT | Other |
| AM | Automated Manual | SA | Semi-Automatic |
| CVT | Continuously Variable | SCV | Selectable Continuously Variable (e.g. CVT with paddles) |
| Drive System Code | | | |
| 4 | 4-Wheel Drive | P | Part-time 4-Wheel Drive |

Certification Summary Information Report

| Test Group | VHYXV00.0303 | Evaporative/Refueling Family | | -- |
|--------------------------------------|---------------------------------|------------------------------|----------------------------------|----|
| 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 | |