

Certification Summary Information Report

| | | | |
|-----------------------------------|--------------------------|-------------------------------------|------------------------|
| Manufacturer | Toyota Motor Corporation | Manufacturer Code | TYX |
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| Certificate Number | HTYXV01.8P35-036 | CARB Executive Order # | -- |
| Certificate Issue Date | 08/19/2016 | Certificate Revision Date | -- |
| Certificate Effective Date | 08/19/2016 | Conditional Certificate | No |
| CSI Revision # | -- | CSI Submission/Revision Date | 06/30/2016 12:40:56 AM |
| Model Year | 2017 | | |

Certification Summary Information Report

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|---|------------------------|--|-------------------------------------|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| 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: | Combustion Engine | | |
| | Fuel | Basic Fuel Metering System | Lean Burn Strategy Indicator |
| | Gasoline | Multipoint/sequential fuel injection | No |
| Drive Source #2: | Electric Motor | | |
| | Fuel | Basic Fuel Metering System | Lean Burn Strategy Indicator |
| | Electricity | -- | 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 | No | Federal Clean Fuel Vehicle Standard | -- |
| Federal Clean Fuel Vehicle ILEV | No | California Partial Zero Emissions Vehicle Indicator | Yes |
| Durability Group Name | HTYXHHGNNE28 | Durability Group Equivalency Factor | 0.9 |
| Reduced Fee Test Group | No | Certification Region Code(s) | FA, CA |
| Complies with HD GHG 2b/3 regulations? | No | | |
| Introduction into Commerce Date | 09/01/2016 | 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 | No |
| SFTP LEV-III Composite Compliance Indicator | Yes | | |
| OBD Compliance Type | CARB | OBD Demonstration Vehicle Test Group | HTYXV01.8P35 |
| Test Group OBD Compliance Level | Full - no deficiencies | Number of Test Group OBD Deficiencies | 0 |
| OBD Deficiencies Comments | -- | | |
| Mfr Test Group Comments | -- | | |
| Mfr Exhaust / Evap Standards Comments | -- | | |

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|---|--------------------------|---|--------------------------------------|----------------------|-----------------------|---------------------|-----------------------|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 | | | | |
| Evaporative/Refueling Family Information | | | | | | | |
| Evaporative Summary Information Type | New | Submission/Correction Date | 06/26/2016 08:44:39 PM | | | | |
| Integrated ORVR? | No | Fuel(s) | Electricity, Gasoline | | | | |
| Multiple Fuel Storage | Fuels Stored Together | | | | | | |
| Bladder Fuel Tank? | No | | | | | | |
| Fuel Tank Material | Plastic | Fuel Tank Material Description | EVOH | | | | |
| Fill Pipe Seal Type | Liquid seal | | | | | | |
| Air Intake System Vapor Storage Device? | Yes | Air Intake System Vapor Storage Device Description | Carbon filter in the air cleaner box | | | | |
| Fuel System Vapor Storage Canister? | Yes | Other Vapor Storage | -- | | | | |
| Fuel System Vapor Storage Canister(s) Total Working Capacity (grams) | 130 | Number of Primary Canisters | 1 | | | | |
| Number of Bleed Canisters | 0 | Bleed Canister Total Working Capacity (grams) | -- | | | | |
| Mfr Evaporative/Refueling Family Comments | -- | | | | | | |
| Leak Family Details | | | | | | | |
| Leak Family Indicator | No | | | | | | |
| Canister Bleed Test Indicator | No | Applicability of Evaporative Canister Bleed Test | -- | | | | |
| 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 | -- | | | | | | |
| Models Covered by this Certificate | | | | | | | |
| Carline Manufacturer | Division | Carline | Certification Region Code(s) | Drive System | Trans - Type | - # of Gears | Trans - Lockup |
| Toyota Motor Corporation | 1 - TOYOTA | 69 - PRIUS PRIME | Federal | 2-Wheel Drive, Front | Continuously Variable | 1 | No |
| Toyota Motor Corporation | 1 - TOYOTA | 69 - PRIUS PRIME | California + CAA Section 177 states | 2-Wheel Drive, Front | Continuously Variable | 1 | No |
| Engine Description | | | | | | | |
| Hybrid Type | IC Engine/Electric Motor | Hybrid Description | -- | | | | |
| Engine Type | 4-Stroke Spark Ignition | Mfr Engine Description | -- | | | | |
| Engine Block Arrangement | Inline | Mfr Engine Block Arrangement Description | -- | | | | |
| Camless Valvetrain Indicator | No | Oil Viscosity/Classification | 0W-20 | | | | |
| Number of Cylinders/Rotors | 4 | | | | | | |

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|---|--------------------|---------------------|--------------|--------------|------------------------------|--------------|------------------------|---------------------------|--------------------------|------------------------------|-----------------------|
| After Treatment Device(s) (ATD) | | | | | | | | | | | |
| ATD Number | ATD Type | ATD Precious Metal | | | Substrate Material | | Substrate Construction | | | | |
| 1 | Three-way catalyst | Palladium + Rhodium | | | Ceramic | | Monolith | | | | |
| 2 | Three-way catalyst | Platinum + Rhodium | | | Ceramic | | Monolith | | | | |
| Mfr After Treatment Device (ATD) Comments | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Direct Ozone Reduction (DOR) Device | | | | | | | | | | | |
| Not Equipped | | | | | | | | | | | |
| Mfr Emission Control Device Comments | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Engine Configuration Number 1 | | | | | | | | | | | |
| Engine Displacement (liters) | | | | | | | | | | | |
| 1.8 | | | | | | | | | | | |
| Engine Rated Horsepower | | | | | | | | | | | |
| 96 | | | | | | | | | | | |
| Number of Inlet Valves Per Cylinder | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| Number of Exhaust Valves Per Cylinder | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| Air Aspiration Method | | | | | | | | | | | |
| Naturally Aspirated | | | | | | | | | | | |
| Number of Air Aspiration Devices | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Air Aspiration Device Configuration | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Charge Air Cooler Type | | | | | | | | | | | |
| N/A | | | | | | | | | | | |
| Cylinder Deactivation | | | | | | | | | | | |
| No | | | | | | | | | | | |
| Cylinder Deactivation Description | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Variable Valve Timing | | | | | | | | | | | |
| Yes | | | | | | | | | | | |
| Variable Valve Timing System Description | | | | | | | | | | | |
| Intake | | | | | | | | | | | |
| Variable Valve Lift? | | | | | | | | | | | |
| No | | | | | | | | | | | |
| Variable Valve Lift System Description | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Number of Knock Sensors | | | | | | | | | | | |
| 1 | | | | | | | | | | | |
| Number of Air/Fuel Sensors | | | | | | | | | | | |
| 2 | | | | | | | | | | | |
| Air/Fuel Sensor # 1 Type | | | | | | | | | | | |
| Heated oxygen | | | | | | | | | | | |
| Air/Fuel Sensor # 1 Description | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Air/Fuel Sensor # 2 Type | | | | | | | | | | | |
| Heated air fuel | | | | | | | | | | | |
| Air/Fuel Sensor # 2 Description | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Mfr Air/Fuel Sensor Comments | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Exhaust Gas Recirculation | | | | | | | | | | | |
| Yes | | | | | | | | | | | |
| Cooled Exhaust Gas Recirculation | | | | | | | | | | | |
| Yes | | | | | | | | | | | |
| EGR Type | | | | | | | | | | | |
| Electronic/Electric | | | | | | | | | | | |
| Exhaust Gas Recirculation Description if 'Other' | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Closed Loop Air Injection System | | | | | | | | | | | |
| No | | | | | | | | | | | |
| Air Injection Type | | | | | | | | | | | |
| Not Applicable | | | | | | | | | | | |
| Air Injection Type if 'Other' | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| Mfr Engine Configuration Comments | | | | | | | | | | | |
| -- | | | | | | | | | | | |
| 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 | | HTYX10042407 | HTYX10042408 | HTYX10042477 | HTYX10042476 | HTYX10042390 | -- | -- | -- | -- | -- |
| Gasoline | | HTYX10042407 | HTYX10042408 | HTYX10042477 | HTYX10042476 | HTYX10042390 | 86.6 | 228.2 | 70 | 286.1 | -- |

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| | | | |
|--|------------------------|---|--------------|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| SFTP LEV-III Official Test Numbers | | | |
| Test Group Fuel | FTP | US06 | SC03 |
| Gasoline | HTYX10042407 | HTYX10042408 | HTYX10042477 |
| Electricity | HTYX10042407 | HTYX10042408 | HTYX10042477 |
| 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 | 352 | Battery Energy Capacity | 25 |
| Battery Specific Energy | 128.5 | Battery Charger Type | On-Board |
| Number of Capacitors | -- | Capacitor Rating (In Farads) | -- |
| Mfr Capacitor Comments | -- | | |
| Hydraulic System Description | -- | | |
| Regenerative Braking Type | Electrical Regen Brake | | |
| Regenerative Braking Source | Front Wheels | Driver Controlled Regenerative Braking | No |
| Mfr Regenerative Braking Description | -- | | |
| Drive Motor(s)/Generator(s) | 2 | | |
| Motor/Generator Type 1 | AC Induction | Rated Motor/Generator Power | 16 |
| Motor/Generator Type 2 | AC Induction | Rated Motor/Generator Power | 37 |
| Mfr Fuel Cell Description | -- | | |
| Fuel Cell On-Board H2 Storage Capacity (kg) | -- | Usable H2 Fill Capacity (kg) | -- |
| Mfr Hybrid Electric/ Electric Vehicle Comments | -- | | |

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|--|---|--|----------------------|------------------------|--------------|------|---|-------------------|----------|---|----------------|-------------|
| Emission Data Vehicle Information | | | | | | | | | | | | |
| Vehicle ID / Configuration | 17-ZW2H / 0 | Manufacturer Vehicle Configuration Number | 0 | | | | | | | | | |
| Original Test Group Name | HTYXV01.8P35 | Original Evaporative/Refueling Family | HTYXR0130J72 | | | | | | | | | |
| Original Test Vehicle Model Year | 2017 | | | | | | | | | | | |
| Vehicle Model | | | | | | | | | | | | |
| Represented Test Vehicle Make | TOYOTA | Represented Test Vehicle Model | PRIUS PRIME | | | | | | | | | |
| 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>Combustion Engine</td> <td>Gasoline</td> </tr> <tr> <td>2</td> <td>Electric Motor</td> <td>Electricity</td> </tr> </tbody> </table> | | | | Drive Source and Fuel# | Drive Source | Fuel | 1 | Combustion Engine | Gasoline | 2 | Electric Motor | Electricity |
| 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 | 15 | Odometer Correction Factor | 1 | | | | | | | | | |
| Odometer Correction Sign | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor | | | | | | | | | | | |
| Odometer Correction Units | Miles | | | | | | | | | | | |
| Engine Code | 01 | Rated Horsepower | 96 | | | | | | | | | |
| Displacement (liters) | 1.798 | | | | | | | | | | | |
| Air Aspiration Method | Naturally Aspirated | Air Aspiration Method, if 'Other' | | | | | | | | | | |
| Number of Air Aspiration Devices | -- | Air Aspiration Device Configuration | -- | | | | | | | | | |
| Charge Air Cooler Type | N/A | Drive Mode While Testing | 2-Wheel Drive, Front | | | | | | | | | |
| Shift Indicator Light Usage | Not equipped | Aged Emission Components | 4,000 (mi) | | | | | | | | | |
| Curb Weight (lbs) | 3365 | Equivalent Test Weight (pounds) | 3625 | | | | | | | | | |
| GVWR (lbs) | -- | N/V Ratio | 19.9 | | | | | | | | | |
| Axle Ratio | 3.22 | | | | | | | | | | | |
| Transmission Type | Continuously Variable | # of Transmission Gears | 1 | | | | | | | | | |
| Transmission Lockup | No | Creeper Gear | No | | | | | | | | | |

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| Test Group | | HTYXV01.8P35 | | | Evaporative/Refueling Family | | | HTYXR0130J72 |
|------------------------------------|---------------------|---------------------|----------------|---------|------------------------------|----------------|-----|--|
| 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 | 18.816 | 0.38689 | 0.012501 | 8.965 | 0.12237 | 0.014282 | 9.3 | |
| Cold CO | 20.698 | 0.42558 | 0.013751 | 7.241 | 0.04141 | 0.016477 | N/A | |
| US06 | 18.816 | 0.38689 | 0.012501 | 8.965 | 0.12237 | 0.014282 | N/A | |
| Emission Control Device Comments | -- | | | | | | | |
| Manufacturer Test Vehicle Comments | POWER SHIFT PATTERN | | | | | | | |

Certification Summary Information Report

| | | | |
|--|---|---------------------------------------|---|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| Test # | HTYX10042407 | Test Procedure | 21 - Federal fuel 2-day exhaust (w/can load) |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 05/16/2016 | Fuel | Gasoline |
| Fuel Batch ID | WB6-12 | Fuel Calibration Number | 2 |
| Vehicle Class | LDV/Passenger Car | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 5409 | Odometer Units | M |
| 4WD Test Dyno | No | 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) |
|--|-----------------------|--|
| CO2 BAG 1 (Bag 1 Carbon Dioxide) | 168.1995 | -- |
| FE BAG 1 (Bag 1 Fuel Economy) | 51.3353303 | 51.3353303 |
| CO2 BAG 2 (Bag 2 Carbon Dioxide) | 69.4676 | -- |
| FE BAG 2 (Bag 2 Fuel Economy) | 125.3012754 | 125.3012754 |
| CO2 BAG 3 (Bag 3 Carbon Dioxide) | 149.7415 | -- |
| FE BAG 3 (Bag 3 Fuel Economy) | 57.6458821 | 57.6458821 |
| CO2 BAG 4 (Bag 4 Carbon Dioxide) | 66.4776 | -- |
| FE BAG 4 (Bag 4 Fuel Economy) | 130.9951637 | 130.9951637 |
| METHANE (CH4 - Methane) | 0.0016323 | -- |
| CO (Carbon Monoxide) | 0.0509904 | -- |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.39 | -- |
| DT-EER (Drive Trace Energy Economy Rating) | -0.16 | -- |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.68 | -- |
| MFR FE (Manufacturer Fuel Economy) | 77.8343134 | 77.8343134 |
| NOX (Nitrogen Oxide) | 0.0034214 | -- |
| N2O (Nitrous Oxide) | 0.0004302 | -- |
| HC-NM (Non-methane Hydrocarbon) | 0.0083804 | -- |
| NMOG (Non-methane organic gas (California)) | 0.0092184 | -- |
| PM (Particulate Matter) | 0.0002154 | -- |
| HC-TOTAL (Total Hydrocarbon) | 0.0099509 | -- |

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| Test Group | HTYXV01.8P35 | | Evaporative/Refueling Family | | | | HTYXR0130J72 | | | | | | | | |
|----------------------------------|---|---------------------------------|------------------------------|-----------------------|---------------------------------|----------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|--|--|--|
| | <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> <td>999</td> </tr> </tbody> </table> | | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | Carbon-Related Exhaust Emissions | 0 | 999 | | | | | | | |
| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | | | | | | | | | | | | | |
| Carbon-Related Exhaust Emissions | 0 | 999 | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>111.0969599</td> <td>--</td> </tr> </tbody> </table> | | Test Result Name | Unrounded Test Result | Verify Calculated CO2 | Carbon dioxide | 111.0969599 | -- | | | | | | | |
| Test Result Name | Unrounded Test Result | Verify Calculated CO2 | | | | | | | | | | | | | |
| Carbon dioxide | 111.0969599 | -- | | | | | | | | | | | | | |
| Manufacturer Test Comments | NMOG = HC-NM x 1.10 | | | | | | | | | | | | | | |
| 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 30 | CO | 0.05 | -- | -- | -- | 0.07 | -- | 0.1 | 1.0 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | CO-COMP | 0.17 | -- | -- | -- | 0.07 | -- | 0.2 | 4.2 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | CREE | 999 | -- | -- | -- | 0.075 | -- | 999 | -- | -- | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | METHANE | 0.0016 | -- | -- | -- | 0.001 | -- | 0.003 | 0.030 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | N2O | 0.0004 | -- | -- | -- | 0.0002 | -- | 0.001 | 0.010 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | NMOG | 0.0092 | 1 | 1.1 | -- | 0.0047 | -- | 0.014 | 999.999 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | NMOG+NOX | 0.0126 | 1 | 1.1 | -- | -- | -- | 0.018 | 0.030 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | NMOG+NOX-COMP | 0.0185 | 1 | 1.03 | -- | 0.0053 | -- | 0.018 | 0.030 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | NOX | 0.0034 | -- | -- | -- | 0.0006 | -- | 0.004 | 999.999 | Pass | | | |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | PM | 0.0002 | -- | -- | -- | 0.0002 | -- | 0 | 0.003 | Pass | | | |
| CA | 150,000 miles | California LEV-III SULEV30 | CO | 0.05 | -- | -- | -- | 0.07 | -- | 0.1 | 1.0 | Pass | | | |
| CA | 150,000 miles | California LEV-III SULEV30 | CO-COMP | 0.17 | -- | -- | -- | 0.07 | -- | 0.2 | 4.2 | Pass | | | |
| CA | 150,000 miles | California LEV-III SULEV30 | NMOG | 0.0092 | 1 | 1.1 | -- | 0.0047 | -- | 0.014 | 999.999 | Pass | | | |
| CA | 150,000 miles | California LEV-III SULEV30 | NMOG+NOX | 0.0126 | 1 | 1.1 | -- | -- | -- | 0.018 | 0.030 | Pass | | | |
| CA | 150,000 miles | California LEV-III SULEV30 | NMOG+NOX-COMP | 0.0185 | 1 | 1.03 | -- | 0.0053 | -- | 0.018 | 0.030 | Pass | | | |
| CA | 150,000 miles | California LEV-III SULEV30 | NOX | 0.0034 | -- | -- | -- | 0.0006 | -- | 0.004 | 999.999 | Pass | | | |
| CA | 150,000 miles | California LEV-III SULEV30 | PM | 0.0002 | -- | -- | -- | 0.0002 | -- | 0 | 0.003 | Pass | | | |

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

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| | | | |
|--|---|---------------------------------------|--|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| Test # | HTYX10042390 | Test Procedure | 3 - HWFE |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 04/22/2016 | Fuel | Gasoline |
| Fuel Batch ID | WB6-12 | Fuel Calibration Number | 1 |
| Vehicle Class | LDV/Passenger Car | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 5021 | Odometer Units | M |
| 4WD Test Dyno | No | 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) |
|---|-----------------------|--|
| CO (Carbon Monoxide) | 0.0117408 | -- |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.49 | -- |
| DT-EER (Drive Trace Energy Economy Rating) | -0.1 | -- |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.67 | -- |
| MFR FE (Manufacturer Fuel Economy) | 999 | 999 |
| NOX (Nitrogen Oxide) | 0.0004458 | -- |
| HC-NM (Non-methane Hydrocarbon) | 0.0002111 | -- |
| NMOG (Non-methane organic gas (California)) | 0.0002174 | -- |
| HC-TOTAL (Total Hydrocarbon) | 0.000351 | -- |

| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|---|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0 | 999 |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|-----------------------|-----------------------|-----------------------|
| Carbon dioxide | 0 | -- |

Manufacturer Test Comments

NMOG = HC-NM x 1.03

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|----------------------|---------------|----------------------------|---------------|----------------|------------------------------|------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | CREE | 999 | -- | -- | -- | 0.075 | -- | 999 | -- | -- |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | NMOG | 0.0002 | 1 | 1.03 | -- | 0.0047 | -- | 0.005 | 999.999 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | NMOG+NOX | 0.0006 | 1 | 1.03 | -- | -- | -- | 0.006 | 0.030 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | NOX | 0.0004 | -- | -- | -- | 0.0006 | -- | 0.001 | 999.999 | Pass |
| CA | 150,000 miles | California LEV-III SULEV30 | NMOG | 0.0002 | 1 | 1.03 | -- | 0.0047 | -- | 0.005 | 999.999 | Pass |
| CA | 150,000 miles | California LEV-III SULEV30 | NMOG+NOX | 0.0006 | 1 | 1.03 | -- | -- | -- | 0.006 | 0.030 | Pass |
| CA | 150,000 miles | California LEV-III SULEV30 | NOX | 0.0004 | -- | -- | -- | 0.0006 | -- | 0.001 | 999.999 | Pass |

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

Certification Summary Information Report

| | | | |
|--|---|---------------------------------------|--|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| Test # | HTYX10042408 | Test Procedure | 90 - US06 |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) |
| Test Date | 05/12/2016 | Fuel | Gasoline |
| Fuel Batch ID | WB6-12 | Fuel Calibration Number | 2 |
| Vehicle Class | LDV/Passenger Car | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 5337 | Odometer Units | M |
| 4WD Test Dyno | No | 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) |
|--|-----------------------|--|
| CO2 BAG 1 (Bag 1 Carbon Dioxide) | 270.152 | -- |
| FE BAG 1 (Bag 1 Fuel Economy) | 31.9692667 | 31.9692667 |
| CO2 BAG 2 (Bag 2 Carbon Dioxide) | 147.432 | -- |
| FE BAG 2 (Bag 2 Fuel Economy) | 58.699279 | 58.699279 |
| CO (Carbon Monoxide) | 0.205822 | -- |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | -0.46 | -- |
| DT-EER (Drive Trace Energy Economy Rating) | 0.27 | -- |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.08 | -- |
| MFR FE (Manufacturer Fuel Economy) | 49.3118388 | 49.3118388 |
| NOX (Nitrogen Oxide) | 0.0024827 | -- |
| HC-NM (Non-methane Hydrocarbon) | 0.013787 | -- |
| NMOG (Non-methane organic gas (California)) | 0.0142006 | -- |
| PM (Particulate Matter) | 0.0004343 | -- |
| HC-TOTAL (Total Hydrocarbon) | 0.015382 | -- |

| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0 | -- |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide | 174.6206567 | -- |

Manufacturer Test Comments

NMOG = HC-NM x 1.03

Certification Summary Information Report

| Test Group | | HTYXV01.8P35 | | | | Evaporative/Refueling Family | | | | HTYXR0130J72 | | |
|----------------------|---------------|----------------------------|---------------|----------------|-----|------------------------------|--------------------------|--------|---------|---------------------|----------|-----------|
| 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 30 | PM | 0.0004 | -- | -- | -- | 0.0002 | -- | 0.001 | 0.010 | Pass |
| CA | 150,000 miles | California LEV-III SULEV30 | PM | 0.0004 | -- | -- | -- | 0.0002 | -- | 0.001 | 0.010 | Pass |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 | | | | | | | | | |
|--|---|--|----------------------|------------------------|--------------|------|---|----------------|-------------|---|-------------------|----------|
| Emission Data Vehicle Information | | | | | | | | | | | | |
| Vehicle ID / Configuration | 17-ZW3H / 0 | Manufacturer Vehicle Configuration Number | 0 | | | | | | | | | |
| Original Test Group Name | HTYXV01.8P35 | Original Evaporative/Refueling Family | HTYXR0130J72 | | | | | | | | | |
| Original Test Vehicle Model Year | 2017 | | | | | | | | | | | |
| Vehicle Model | | | | | | | | | | | | |
| Represented Test Vehicle Make | TOYOTA | Represented Test Vehicle Model | PRIUS PRIME | | | | | | | | | |
| 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> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table> | | | | Drive Source and Fuel# | Drive Source | Fuel | 1 | Electric Motor | Electricity | 2 | Combustion Engine | Gasoline |
| Drive Source and Fuel# | Drive Source | Fuel | | | | | | | | | | |
| 1 | Electric Motor | Electricity | | | | | | | | | | |
| 2 | Combustion Engine | Gasoline | | | | | | | | | | |
| 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 | 11 | Odometer Correction Factor | 1 | | | | | | | | | |
| Odometer Correction Sign | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor | | | | | | | | | | | |
| Odometer Correction Units | Miles | | | | | | | | | | | |
| Engine Code | 01 | Rated Horsepower | 96 | | | | | | | | | |
| Displacement (liters) | 1.798 | | | | | | | | | | | |
| Air Aspiration Method | Naturally Aspirated | Air Aspiration Method, if 'Other' | | | | | | | | | | |
| Number of Air Aspiration Devices | -- | Air Aspiration Device Configuration | -- | | | | | | | | | |
| Charge Air Cooler Type | N/A | Drive Mode While Testing | 2-Wheel Drive, Front | | | | | | | | | |
| Shift Indicator Light Usage | Not equipped | Aged Emission Components | 4,000 (mi) | | | | | | | | | |
| Curb Weight (lbs) | 3365 | Equivalent Test Weight (pounds) | 3625 | | | | | | | | | |
| GVWR (lbs) | -- | N/V Ratio | 19.9 | | | | | | | | | |
| Axle Ratio | 3.22 | | | | | | | | | | | |
| Transmission Type | Continuously Variable | # of Transmission Gears | 1 | | | | | | | | | |
| Transmission Lockup | No | Creeper Gear | No | | | | | | | | | |

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
|-------------------|--------------|-------------------------------------|--------------|

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 | 18.816 | 0.38689 | 0.012501 | 10.591 | 0.0846 | 0.014573 | 9.3 |
| US06 | 18.816 | 0.38689 | 0.012501 | 10.591 | 0.0846 | 0.014573 | N/A |

Emission Control Device Comments

--

Manufacturer Test Vehicle Comments

POWER SHIFT PATTERN

| | | | |
|---|--|--------------------------------|-------------------------------------|
| Test # | HTYX10042564 | Test Procedure | 38 - CA fuel 3-day evap. |
| Exhaust Test # for this Evap Test | HTYX10042561 | Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline |
| Test Date | 04/22/2016 | Fuel | Gasoline |
| Fuel Batch ID | WB6-11 | Fuel Calibration Number | 1 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3992 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|---|-----------------------|--|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.1518783 | -- |

Manufacturer Test Comments HSL=0.0523, 1ST DBL=0.1160, 2ND DBL=0.0996, 3RD DBL=0.0990, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0206GRAM)

| 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 | 0.1519 | 0 | 0.152 | 0.3 | Pass |
| CA | 150,000 miles | California LEV-III Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.1519 | 0 | 0.152 | 0.3 | Pass |

Certification Summary Information Report

| | | | |
|--|--|---------------------------------------|--|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| Test # | HTYX10042566 | Test Procedure | 27 - California fuel 2-day evap |
| Exhaust Test # for this Evap Test | HTYX10042560 | Test Fuel Type | 46 - CARB LEV3 E10 Regular |
| Test Date | 04/13/2016 | Fuel | Gasoline |
| Fuel Batch ID | WL5-22 | Fuel Calibration Number | 3 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3869 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | Road Speed Fan Usage | No |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | | |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.1349583 | -- |

Manufacturer Test Comments HSL=0.0057, 1ST DBL=0.1293, 2ND DBL=0.0807, 1ST DBL IS ADDED KEY OFF MONITOR LOSS(0.0206GRAM)

| 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 | 0.135 | 0 | 0.135 | 0.3 | Pass |
| CA | 150,000 miles | California LEV-III Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.135 | 0 | 0.135 | 0.3 | Pass |

Certification Summary Information Report

| | | | |
|--|--|---------------------------------------|--|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| Test # | HTYX10042565 | Test Procedure | 37 - California Fuel Running Loss |
| Exhaust Test # for this Evap Test | HTYX10042561 | Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline |
| Test Date | 04/22/2016 | Fuel | Gasoline |
| Fuel Batch ID | WB6-11 | Fuel Calibration Number | 1 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3974 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|---|-----------------------|--|
| HC-TOTAL-EQUIV (Total Hydrocarbon equivalent - Evap only) | 0.0032469 | -- |

Manufacturer Test Comments

--

| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|---|----------------|----------------|--------|---------------------|----------|-----------|
| Fed | 150,000 miles | Federal Tier 3 Evap | HC-TOTAL-EQUIV | 0.003 | 0 | 0 | 0.05 | Pass |
| CA | 150,000 miles | California LEV-III Zero Evap (Option 2) | HC-TOTAL-EQUIV | 0.003 | 0 | 0 | 0.05 | Pass |

Certification Summary Information Report

| | | | |
|-------------------|--------------|-------------------------------------|--------------|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
|-------------------|--------------|-------------------------------------|--------------|

| | | | |
|--|--|---------------------------------------|--|
| Test # | HTYX10042567 | Test Procedure | 24 - Federal fuel refueling test (ORVR) |
| Exhaust Test # for this Evap Test | HTYX10042560 | Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline |
| Test Date | 04/08/2016 | Fuel | Gasoline |
| Fuel Batch ID | WL5-22 | Fuel Calibration Number | 3 |
| Vehicle Class | N/A | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | Calculated (1.08 x FID Total Hydrocarbons) | | |
| Test Start Odometer Reading | 3843 | Odometer Units | M |
| 4WD Test Dyno | No | Diesel Adjustment Factor Usage | -- |
| State of Charge Delta | -- | | |
| Drive Cycle Speed Tolerance Criteria | Used Part 1066 (+/- 2.0 mph, +/- 1.0 sec) | Road Speed Fan Usage | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| HC (Hydrocarbon for Running Loss and ORVR) | 0.0012283 | -- |

Manufacturer Test Comments --

| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | Add DF | Certification Level | Standard | Pass/Fail |
|----------------------|---------------|---|---------------|----------------|--------|---------------------|----------|-----------|
| Fed | 150,000 miles | Federal Tier 3 Evap | HC | 0.001 | 0 | 0 | 0.2 | Pass |
| CA | 150,000 miles | California LEV-III Zero Evap (Option 2) | HC | 0.001 | 0 | 0 | 0.2 | Pass |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 | | | | | | | | | |
|--|---|--|----------------------|------------------------|--------------|------|---|----------------|-------------|---|-------------------|----------|
| Emission Data Vehicle Information | | | | | | | | | | | | |
| Vehicle ID / Configuration | 17-ZW4H / 0 | Manufacturer Vehicle Configuration Number | 0 | | | | | | | | | |
| Original Test Group Name | HTYXV01.8P35 | Original Evaporative/Refueling Family | HTYXR0130J72 | | | | | | | | | |
| Original Test Vehicle Model Year | 2017 | | | | | | | | | | | |
| Vehicle Model | | | | | | | | | | | | |
| Represented Test Vehicle Make | TOYOTA | Represented Test Vehicle Model | PRIUS PRIME | | | | | | | | | |
| 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> <tr> <td>2</td> <td>Combustion Engine</td> <td>Gasoline</td> </tr> </tbody> </table> | | | | Drive Source and Fuel# | Drive Source | Fuel | 1 | Electric Motor | Electricity | 2 | Combustion Engine | Gasoline |
| Drive Source and Fuel# | Drive Source | Fuel | | | | | | | | | | |
| 1 | Electric Motor | Electricity | | | | | | | | | | |
| 2 | Combustion Engine | Gasoline | | | | | | | | | | |
| 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 | 12 | Odometer Correction Factor | 1 | | | | | | | | | |
| Odometer Correction Sign | - = System Miles is equal to (Test odometer reading - Initial system miles) * Correction factor | | | | | | | | | | | |
| Odometer Correction Units | Miles | | | | | | | | | | | |
| Engine Code | 01 | Rated Horsepower | 96 | | | | | | | | | |
| Displacement (liters) | 1.798 | | | | | | | | | | | |
| Air Aspiration Method | Naturally Aspirated | Air Aspiration Method, if 'Other' | | | | | | | | | | |
| Number of Air Aspiration Devices | -- | Air Aspiration Device Configuration | -- | | | | | | | | | |
| Charge Air Cooler Type | N/A | Drive Mode While Testing | 2-Wheel Drive, Front | | | | | | | | | |
| Shift Indicator Light Usage | Not equipped | Aged Emission Components | 4,000 (mi) | | | | | | | | | |
| Curb Weight (lbs) | 3365 | Equivalent Test Weight (pounds) | 3625 | | | | | | | | | |
| GVWR (lbs) | -- | N/V Ratio | 19.9 | | | | | | | | | |
| Axle Ratio | 3.22 | | | | | | | | | | | |
| Transmission Type | Continuously Variable | # of Transmission Gears | 1 | | | | | | | | | |
| Transmission Lockup | No | Creep Gear | No | | | | | | | | | |

Certification Summary Information Report

| Test Group | | HTYXV01.8P35 | | | Evaporative/Refueling Family | | | HTYXR0130J72 |
|------------------------------------|---------------------|---------------------|----------------|---------|------------------------------|----------------|-----|--|
| 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 | 18.816 | 0.38689 | 0.012501 | 8.965 | 0.12237 | 0.014282 | 9.3 | |
| Cold CO | 20.698 | 0.42558 | 0.013751 | 7.024 | 0.07416 | 0.015845 | N/A | |
| US06 | 18.816 | 0.38689 | 0.012501 | 8.965 | 0.12237 | 0.014282 | N/A | |
| Emission Control Device Comments | -- | | | | | | | |
| Manufacturer Test Vehicle Comments | POWER SHIFT PATTERN | | | | | | | |

Certification Summary Information Report

| | | | |
|--|---|---------------------------------------|--|
| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
| Test # | HTYX10042476 | Test Procedure | 11 - Cold CO |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 28 - Cold CO E10 Regular Gasoline (Tier 3) |
| Test Date | 04/26/2016 | Fuel | Gasoline |
| Fuel Batch ID | WJ5-13 | Fuel Calibration Number | 6 |
| Vehicle Class | LDV/Passenger Car | DF Type | Mfr. Determined |
| Verify Test Lab ID | Higashifuji Technical Center | | |
| E10 Evaporative Test Measurement Method | -- | | |
| Test Start Odometer Reading | 4666 | Odometer Units | M |
| 4WD Test Dyno | No | 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 | No |

Test Results

| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) |
|--|-----------------------|--|
| CO2 BAG 1 (Bag 1 Carbon Dioxide) | 0 | -- |
| FE BAG 1 (Bag 1 Fuel Economy) | 999 | 999 |
| CO2 BAG 2 (Bag 2 Carbon Dioxide) | 0 | -- |
| FE BAG 2 (Bag 2 Fuel Economy) | 999 | 999 |
| CO2 BAG 3 (Bag 3 Carbon Dioxide) | 0 | -- |
| FE BAG 3 (Bag 3 Fuel Economy) | 999 | 999 |
| CO2 BAG 4 (Bag 4 Carbon Dioxide) | 0 | -- |
| FE BAG 4 (Bag 4 Fuel Economy) | 999 | 999 |
| CO (Carbon Monoxide) | 0.5730488 | -- |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.59 | -- |
| DT-EER (Drive Trace Energy Economy Rating) | -0.07 | -- |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 1.09 | -- |
| MFR FE (Manufacturer Fuel Economy) | 999 | 999 |
| NOX (Nitrogen Oxide) | 0.0076517 | -- |
| HC-NM (Non-methane Hydrocarbon) | 0.1226104 | -- |
| HC-TOTAL (Total Hydrocarbon) | 0.1281564 | -- |

| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE |
|----------------------------------|-----------------------|---------------------------------|
| Carbon-Related Exhaust Emissions | 0 | -- |

| Test Result Name | Unrounded Test Result | Verify Calculated CO2 |
|------------------|-----------------------|-----------------------|
| Carbon dioxide | 0 | -- |

Certification Summary Information Report

| Test Group | | HTYXV01.8P35 | | Evaporative/Refueling Family | | | | HTYXR0130J72 | | | | |
|----------------------------|---------------|----------------------------|---------------|------------------------------|-----|------------------|--------------------------|--------------|---------|---------------------|----------|-----------|
| Manufacturer Test Comments | | -- | | | | | | | | | | |
| Certification Region | Useful Life | Standard Level | Emission Name | Rounded Result | RAF | NMOG/NM HC Ratio | Diesel Adjustment Factor | Add DF | Mult DF | Certification Level | Standard | Pass/Fail |
| Fed | 50,000 miles | Federal Tier 3 Bin 30 | CO | 0.57 | -- | -- | -- | 0.02 | -- | 0.6 | 10.0 | Pass |
| Fed | 150,000 miles | Federal Tier 3 Bin 30 | HC-NM | 0.12 | -- | -- | -- | 0 | -- | 0.1 | 0.2 | Pass |
| CA | 50,000 miles | California LEV-III SULEV30 | CO | 0.57 | -- | -- | -- | 0.02 | -- | 0.6 | 10.0 | Pass |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|---|--|--|------------------|-----------------------|--|----------------------------------|----------|----|--|------|----|--|------|----|---|------|----|------------------------------------|-----|-----|----------------------|---------|----|---------------------------------|----------|----|---|----------|----|------------------------------|----------|----|
| Test # | HTYX10042477 | Test Procedure | 95 - SC03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Exhaust Test # for this Evap Test | -- | Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Date | 05/10/2016 | Fuel | N/A | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Fuel Batch ID | WB6-12 | Fuel Calibration Number | 2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Vehicle Class | N/A | DF Type | Mfr. Determined | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Verify Test Lab ID | Higashifuji Technical Center | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E10 Evaporative Test Measurement Method | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Start Odometer Reading | 4794 | Odometer Units | M | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4WD Test Dyno | No | 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 | No | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Results | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated FE Equivalent Value (miles per gallon)</th> </tr> </thead> <tbody> <tr> <td>CO (Carbon Monoxide)</td> <td>0.059009</td> <td>--</td> </tr> <tr> <td>DT-ASCR (Drive Trace Absolute Speed Change Rating)</td> <td>0.61</td> <td>--</td> </tr> <tr> <td>DT-EER (Drive Trace Energy Economy Rating)</td> <td>0.47</td> <td>--</td> </tr> <tr> <td>DT-IWRR (Drive Trace Inertia Work Ratio Rating)</td> <td>0.94</td> <td>--</td> </tr> <tr> <td>MFR FE (Manufacturer Fuel Economy)</td> <td>999</td> <td>999</td> </tr> <tr> <td>NOX (Nitrogen Oxide)</td> <td>0.00075</td> <td>--</td> </tr> <tr> <td>HC-NM (Non-methane Hydrocarbon)</td> <td>0.010065</td> <td>--</td> </tr> <tr> <td>NMOG (Non-methane organic gas (California))</td> <td>0.010367</td> <td>--</td> </tr> <tr> <td>HC-TOTAL (Total Hydrocarbon)</td> <td>0.012509</td> <td>--</td> </tr> </tbody> </table> | | | | Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | CO (Carbon Monoxide) | 0.059009 | -- | DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.61 | -- | DT-EER (Drive Trace Energy Economy Rating) | 0.47 | -- | DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.94 | -- | MFR FE (Manufacturer Fuel Economy) | 999 | 999 | NOX (Nitrogen Oxide) | 0.00075 | -- | HC-NM (Non-methane Hydrocarbon) | 0.010065 | -- | NMOG (Non-methane organic gas (California)) | 0.010367 | -- | HC-TOTAL (Total Hydrocarbon) | 0.012509 | -- |
| Test Result Name | Unrounded Test Result | Verify Calculated FE Equivalent Value (miles per gallon) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| CO (Carbon Monoxide) | 0.059009 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DT-ASCR (Drive Trace Absolute Speed Change Rating) | 0.61 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DT-EER (Drive Trace Energy Economy Rating) | 0.47 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| DT-IWRR (Drive Trace Inertia Work Ratio Rating) | 0.94 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| MFR FE (Manufacturer Fuel Economy) | 999 | 999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOX (Nitrogen Oxide) | 0.00075 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HC-NM (Non-methane Hydrocarbon) | 0.010065 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NMOG (Non-methane organic gas (California)) | 0.010367 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| HC-TOTAL (Total Hydrocarbon) | 0.012509 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CREE/OPT-CREE</th> </tr> </thead> <tbody> <tr> <td>Carbon-Related Exhaust Emissions</td> <td>0</td> <td>--</td> </tr> </tbody> </table> | | | | Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | Carbon-Related Exhaust Emissions | 0 | -- | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Result Name | Unrounded Test Result | Verify Calculated CREE/OPT-CREE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon-Related Exhaust Emissions | 0 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Test Result Name</th> <th>Unrounded Test Result</th> <th>Verify Calculated CO2</th> </tr> </thead> <tbody> <tr> <td>Carbon dioxide</td> <td>0</td> <td>--</td> </tr> </tbody> </table> | | | | Test Result Name | Unrounded Test Result | Verify Calculated CO2 | Carbon dioxide | 0 | -- | | | | | | | | | | | | | | | | | | | | | | | | |
| Test Result Name | Unrounded Test Result | Verify Calculated CO2 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Carbon dioxide | 0 | -- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Manufacturer Test Comments | NMOG = HC-NM x 1.03 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
|--|--|--|--------------|
| Fuel Properties | | | |
| Fuel Batch ID | WB6-12 | Fuel Calibration Number | 1 |
| Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | Fuel Batch Calibration Date | 02/23/2016 |
| Fuel Batch Calibration Effective Date | 04/04/2016 | Fuel Batch Calibration Ineffective Date | 04/30/2016 |
| Carbon Weight Fraction NMHC | -- | Carbon Weight Fraction HC | -- |
| Exhaust Carbon Weight Fraction | -- | Fuel Methanol Volume Fraction | -- |
| Fuel Density (grams/cubic ft) | -- | Fuel Specific Gravity | 0.74 |
| Fuel Ethanol Volume Percent (%) | -- | Fuel Net Heating Value (BTU / lb) | 17811 |
| Fuel Blend Carbon Weight Fraction | 0.825 | Weight Fraction CO2 | -- |
| Fuel Batch ID | WJ5-13 | Fuel Calibration Number | 6 |
| Test Fuel Type | 28 - Cold CO E10 Regular Gasoline (Tier 3) | Fuel Batch Calibration Date | 09/15/2015 |
| Fuel Batch Calibration Effective Date | 04/01/2016 | Fuel Batch Calibration Ineffective Date | 04/30/2016 |
| Carbon Weight Fraction NMHC | -- | Carbon Weight Fraction HC | -- |
| Exhaust Carbon Weight Fraction | -- | Fuel Methanol Volume Fraction | -- |
| Fuel Density (grams/cubic ft) | -- | Fuel Specific Gravity | 0.738 |
| Fuel Ethanol Volume Percent (%) | -- | Fuel Net Heating Value (BTU / lb) | 17791 |
| Fuel Blend Carbon Weight Fraction | 0.826 | Weight Fraction CO2 | -- |
| Fuel Batch ID | WL5-22 | Fuel Calibration Number | 3 |
| Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline | Fuel Batch Calibration Date | 11/12/2015 |
| Fuel Batch Calibration Effective Date | 04/01/2016 | Fuel Batch Calibration Ineffective Date | 04/30/2016 |
| Carbon Weight Fraction NMHC | -- | Carbon Weight Fraction HC | -- |
| Exhaust Carbon Weight Fraction | -- | Fuel Methanol Volume Fraction | -- |
| Fuel Density (grams/cubic ft) | -- | Fuel Specific Gravity | 0.744 |
| Fuel Ethanol Volume Percent (%) | -- | Fuel Net Heating Value (BTU / lb) | 17828 |
| Fuel Blend Carbon Weight Fraction | 0.825 | Weight Fraction CO2 | -- |
| Fuel Batch ID | WB6-12 | Fuel Calibration Number | 2 |
| Test Fuel Type | 48 - Tier 3 E10 Regular Gasoline (9 RVP @Low Alt.) | Fuel Batch Calibration Date | 02/23/2016 |
| Fuel Batch Calibration Effective Date | 05/06/2016 | Fuel Batch Calibration Ineffective Date | 05/31/2016 |
| Carbon Weight Fraction NMHC | -- | Carbon Weight Fraction HC | -- |
| Exhaust Carbon Weight Fraction | -- | Fuel Methanol Volume Fraction | -- |
| Fuel Density (grams/cubic ft) | -- | Fuel Specific Gravity | 0.74 |
| Fuel Ethanol Volume Percent (%) | -- | Fuel Net Heating Value (BTU / lb) | 17811 |
| Fuel Blend Carbon Weight Fraction | 0.825 | Weight Fraction CO2 | -- |
| Fuel Batch ID | WB6-11 | Fuel Calibration Number | 1 |
| Test Fuel Type | 46 - CARB LEV3 E10 Regular Gasoline | Fuel Batch Calibration Date | 02/14/2016 |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
|--|--------------|--|--------------|
| Fuel Batch Calibration Effective Date | 04/20/2016 | Fuel Batch Calibration Ineffective Date | 04/30/2016 |
| Carbon Weight Fraction NMHC | -- | Carbon Weight Fraction HC | -- |
| Exhaust Carbon Weight Fraction | -- | Fuel Methanol Volume Fraction | -- |
| Fuel Density (grams/cubic ft) | -- | Fuel Specific Gravity | 0.743 |
| Fuel Ethanol Volume Percent (%) | -- | Fuel Net Heating Value (BTU / lb) | 17867 |
| Fuel Blend Carbon Weight Fraction | 0.825 | Weight Fraction CO2 | -- |

Certification Summary Information Report

| Test Group | | HTYXV01.8P35 | | | Evaporative/Refueling Family | | | HTYXR0130J72 | | |
|--------------------------------|---------------|-------------------|-----|-------------|---------------------------------|-----------------------------------|---------|---|----------|--|
| 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 30 | | |
| Fuel | | Gasoline | | | Test Procedure | | | Federal fuel 2-day exhaust (w/can load) | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 150,000 miles | CO | -- | -- | -- | -- | -- | -- | 0.07 | 1.0 | |
| 150,000 miles | CO-COMP | -- | -- | -- | -- | -- | -- | 0.07 | 4.2 | |
| 150,000 miles | CREE | -- | -- | -- | -- | -- | -- | 0.075 | 999.9999 | |
| 150,000 miles | HCHO | -- | -- | -- | -- | -- | -- | -- | 0.004 | |
| 150,000 miles | METHANE | -- | -- | -- | -- | -- | -- | 0.001 | 0.030 | |
| 150,000 miles | N2O | -- | -- | -- | -- | -- | -- | 0.0002 | 0.010 | |
| 150,000 miles | NMOG | -- | 1 | 1.1 | -- | -- | -- | 0.0047 | 999.999 | |
| 150,000 miles | NMOG+NOX | -- | 1 | 1.1 | -- | -- | -- | 0.0053 | 0.030 | |
| 150,000 miles | NMOG+NOX-COMP | -- | 1 | 1.03 | -- | -- | -- | 0.0053 | 0.030 | |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | -- | 0.0006 | 999.999 | |
| 150,000 miles | PM | -- | -- | -- | -- | -- | -- | 0.0002 | 0.003 | |
| | | | | | | | | | | |
| Cert Region | | Federal | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | | LDV/Passenger Car | | | Standard Level | | | Federal Tier 3 Bin 30 | | |
| Fuel | | Gasoline | | | Test Procedure | | | HWFE | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 150,000 miles | CREE | -- | -- | -- | -- | -- | -- | 0.075 | 999.9999 | |
| 150,000 miles | NMOG | -- | 1 | 1.03 | -- | -- | -- | 0.0047 | 999.999 | |
| 150,000 miles | NMOG+NOX | -- | 1 | 1.03 | -- | -- | -- | 0.0053 | 0.030 | |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | -- | 0.0006 | 999.999 | |

Certification Summary Information Report

| | | | | | | | | | |
|----------------------|-------------------------------------|-----------------------|------------|--------------------|--|--|----------------|---|------------|
| Test Group | HTYXV01.8P35 | | | | Evaporative/Refueling Family | | | HTYXR0130J72 | |
| Cert Region | California + CAA Section 177 states | | | | Cert/In-Use Code | | | Cert | |
| Vehicle Class | LDV/Passenger Car | | | | Standard Level | | | California LEV-III SULEV30 | |
| Fuel | Gasoline | | | | Test Procedure | | | Federal fuel 2-day exhaust (w/can load) | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std |
| 150,000 miles | CO | -- | -- | -- | -- | -- | -- | 0.07 | 1.0 |
| 150,000 miles | CO-COMP | -- | -- | -- | -- | -- | -- | 0.07 | 4.2 |
| 150,000 miles | HCHO | -- | -- | -- | -- | -- | -- | -- | 0.004 |
| 150,000 miles | NMOG | -- | 1 | 1.1 | -- | -- | -- | 0.0047 | 999.999 |
| 150,000 miles | NMOG+NOX | -- | 1 | 1.1 | -- | -- | -- | 0.0053 | 0.030 |
| 150,000 miles | NMOG+NOX-COMP | -- | 1 | 1.03 | -- | -- | -- | 0.0053 | 0.030 |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | -- | 0.0006 | 999.999 |
| 150,000 miles | PM | -- | -- | -- | -- | -- | -- | 0.0002 | 0.003 |

| | | | | | | | | | |
|----------------------|-------------------------------------|-----------------------|------------|--------------------|--|--|----------------|----------------------------|------------|
| Cert Region | California + CAA Section 177 states | | | | Cert/In-Use Code | | | Cert | |
| Vehicle Class | LDV/Passenger Car | | | | Standard Level | | | California LEV-III SULEV30 | |
| Fuel | Gasoline | | | | Test Procedure | | | HWFE | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std |
| 150,000 miles | NMOG | -- | 1 | 1.03 | -- | -- | -- | 0.0047 | 999.999 |
| 150,000 miles | NMOG+NOX | -- | 1 | 1.03 | -- | -- | -- | 0.0053 | 0.030 |
| 150,000 miles | NOX | -- | -- | -- | -- | -- | -- | 0.0006 | 999.999 |

| | | | | | | | | | |
|----------------------|-------------------------------------|-----------------------|------------|--------------------|--|--|----------------|--------------------------------|------------|
| Cert Region | California + CAA Section 177 states | | | | Cert/In-Use Code | | | Cert | |
| Vehicle Class | LDV/Passenger Car | | | | Standard Level | | | California LEV-III SULEV30 | |
| 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 |
| 4,000 miles | CO | -- | -- | -- | -- | -- | -- | -- | 1.0 |
| 4,000 miles | HCHO | -- | -- | -- | -- | -- | -- | -- | 0.008 |
| 4,000 miles | NMOG | -- | 1 | 1.1 | -- | -- | -- | -- | 999.999 |
| 4,000 miles | NMOG+NOX | -- | 1 | 1.1 | -- | -- | 1 | -- | 0.060 |
| 4,000 miles | NOX | -- | -- | -- | -- | -- | -- | -- | 999.999 |

Certification Summary Information Report

| | | | | | | | | | | |
|--|-------------------------------------|-----------------------|------------|--------------------|--|--|----------------|----------------------------|------------|--|
| Test Group | HTYXV01.8P35 | | | | Evaporative/Refueling Family | | | HTYXR0130J72 | | |
| Cert Region | Federal | | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | LDV/Passenger Car | | | | Standard Level | | | Federal Tier 3 Bin 30 | | |
| Fuel | Gasoline | | | | Test Procedure | | | Cold CO | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 50,000 miles | CO | -- | -- | -- | -- | -- | -- | 0.02 | 10.0 | |
| 150,000 miles | HC-NM | -- | -- | -- | -- | -- | -- | 0 | 0.2 | |
| Cert Region | California + CAA Section 177 states | | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | LDV/Passenger Car | | | | Standard Level | | | California LEV-III SULEV30 | | |
| Fuel | Gasoline | | | | Test Procedure | | | Cold CO | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 50,000 miles | CO | -- | -- | -- | -- | -- | -- | 0.02 | 10.0 | |
| Cert Region | California + CAA Section 177 states | | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | LDV/Passenger Car | | | | Standard Level | | | California LEV-III SULEV30 | | |
| Fuel | Gasoline | | | | Test Procedure | | | US06 | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 150,000 miles | PM | -- | -- | -- | -- | -- | -- | 0.0002 | 0.010 | |
| Cert Region | Federal | | | | Cert/In-Use Code | | | Cert | | |
| Vehicle Class | LDV/Passenger Car | | | | Standard Level | | | Federal Tier 3 Bin 30 | | |
| Fuel | Gasoline | | | | Test Procedure | | | US06 | | |
| Useful Life | Emission Name | Rounded Result | RAF | NMOG / NMHC | Upward Diesel Adjustment Factor | Downward Diesel Adjustment Factor | Mult DF | Add DF | Std | |
| 150,000 miles | PM | -- | -- | -- | -- | -- | -- | 0.0002 | 0.010 | |
| Evaporative/Refueling Standards | | | | | | | | | | |

Certification Summary Information Report

| | | | | | |
|-------------------------------------|------------------------------------|----------------------|-------------------------------------|--|---------------|
| Test Group | HTYXV01.8P35 | | Evaporative/Refueling Family | HTYXR0130J72 | |
| Evaporative/Refueling Family | HTYXR0130J72 | | Cert Region | California + CAA Section 177 states California LEV-III Zero Evap (Option 2) | |
| Cert/In-Use Code | Cert | | Standard Level | | |
| Test Procedure | CA fuel 3-day evap. | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.300 | 0 |
| Evaporative/Refueling Family | HTYXR0130J72 | | Cert Region | California + CAA Section 177 states California LEV-III Zero Evap (Option 2) | |
| Cert/In-Use Code | Cert | | Standard Level | | |
| Test Procedure | Federal fuel refueling test (ORVR) | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC | -- | 0.20 | 0 |
| Evaporative/Refueling Family | HTYXR0130J72 | | Cert Region | Federal Federal Tier 3 Evap | |
| Cert/In-Use Code | Cert | | Standard Level | | |
| Test Procedure | Spitback | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 4,000 miles | SPITBACK | -- | 1.0 | 0 |
| Evaporative/Refueling Family | HTYXR0130J72 | | Cert Region | California + CAA Section 177 states California LEV-III Zero Evap (Option 2) | |
| Cert/In-Use Code | Cert | | Standard Level | | |
| Test Procedure | California 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 | HTYXR0130J72 | | Cert Region | Federal Federal Tier 3 Evap | |
| Cert/In-Use Code | Cert | | Standard Level | | |
| Test Procedure | California 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 | HTYXV01.8P35 | | Evaporative/Refueling Family | HTYXR0130J72 | |
| Evaporative/Refueling Family | HTYXR0130J72 | | Cert Region | Federal | |
| Cert/In-Use Code | Cert | | Standard Level | Federal Tier 3 Evap | |
| Test Procedure | CA fuel 3-day evap. | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.300 | 0 |
| Evaporative/Refueling Family | HTYXR0130J72 | | Cert Region | California + CAA Section 177 states California LEV-III Zero Evap (Option 2) | |
| Cert/In-Use Code | Cert | | Standard Level | | |
| Test Procedure | California fuel 2-day evap | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.300 | 0 |
| Evaporative/Refueling Family | HTYXR0130J72 | | Cert Region | Federal | |
| Cert/In-Use Code | Cert | | Standard Level | Federal Tier 3 Evap | |
| Test Procedure | California fuel 2-day evap | | | | |
| Fuel | Useful Life | Emission Name | Rounded Result | Std | Add DF |
| Gasoline | 150,000 miles | HC-TOTAL-EQUIV | -- | 0.300 | 0 |
| Evaporative/Refueling Family | HTYXR0130J72 | | 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 | -- | 0.20 | 0 |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
|--|---|------------------------------|--|
| 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 | METHANOL | CH3OH - Methanol |
| CO | Carbon Monoxide | N2O | Nitrous Oxide |
| CO2 | Carbon dioxide | SPITBACK | Spitback Hydrocarbon in grams |
| CREE | Carbon-Related Exhaust Emissions | AMP-HRS | Integrated Amp-hours |
| OPT-CREE | Optional Carbon-Related Exhaust Emissions | START-SOC | System Start State of Charge Watt-hours |
| NOX | Nitrogen Oxide | END-SOC | System End State of Charge Watt-hours |
| PM | Particulate Matter | ACT-DISTANCE | Actual Distance Driven (miles) |
| PM-COMP | SFTP Composite Particulate Matter | AS-VOLT | Average System Voltage |
| HC-NM | Non-methane Hydrocarbon | CO2 BAG 1 | Bag 1 Carbon Dioxide |
| OMHCE | Organic material Hydrocarbon Equivalent | CO2 BAG 2 | Bag 2 Carbon Dioxide |
| OMNMHCE | Organic material non-methane HC equivalent | CO2 BAG 3 | Bag 3 Carbon Dioxide |
| NMOG | Non-methane organic gas (California) | CO2 BAG 4 | Bag 4 Carbon Dioxide |
| HCHO | Formaldehyde | NMOG+NOX | Non-methane organic gases plus Nitrogen Oxides |
| H3C2HO | Acetaldehyde | NMOG+NOX-COMP | SFTP Composite Non-methane Organic Gases + Nitrogen Oxides |
| HC-NM+NOX | SFTP Non-methane Hydrocarbon + Nitrogen Oxides for US06 or SC03 | DT-IWRR | Drive Trace Inertia Work Ratio Rating |
| HC-NM+NOX-COMP | SFTP Composite Non-methane Hydrocarbon + Nitrogen Oxides | DT-ASCR | Drive Trace Absolute Speed Change Rating |
| CO-COMP | SFTP Composite Carbon Monoxide | DT-EER | Drive Trace Energy Economy Rating |
| ETHANOL | C2H5OH - Ethanol | COMB-CREE | Combined Carbon-Related Exhaust Emissions |
| FE BAG 1 | Bag 1 Fuel Economy | COMB-OPT-CREE | Combined Optional Carbon-Related Exhaust Emissions |
| FE BAG 2 | Bag 2 Fuel Economy | HC-TOTAL-EQUIV | Total Hydrocarbon equivalent - Evap only |
| FE BAG 3 | Bag 3 Fuel Economy | METHANE-COMB | Combined CH4 for HD 2b/3 vehicles only |
| FE BAG 4 | Bag 4 Fuel Economy | N2O-COMB | Combined Nitrous Oxide for HD 2b/3 vehicles only |
| MFR FE | Manufacturer Fuel Economy | LEAK-DIA | Effective Leak Diameter (inches) |
| HC | Hydrocarbon for Running Loss and ORVR | LEAK-GAS CAP | Gas Cap Leakage (cc/min) |
| METHANE | CH4 - Methane | | |
| Certification Region | | | |
| CA | California + CAA Section 177 states | FA | Federal |
| Exhaust Emission Standard Level | | | |
| B1 | Federal Tier 2 Bin 1 | L3ULEV340 | California LEV-III ULEV340 |
| B2 | Federal Tier 2 Bin 2 | L3ULEV250 | California LEV-III ULEV250 |
| B3 | Federal Tier 2 Bin 3 | L3ULEV200 | California LEV-III ULEV200 |
| B4 | Federal Tier 2 Bin 4 | L3SULEV170 | California LEV-III SULEV170 |
| B5 | Federal Tier 2 Bin 5 | L3SULEV150 | California LEV-III SULEV150 |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
|-------------------------------|---|------------------------------|--|
| B6 | Federal Tier 2 Bin 6 | L3LEV630 | California LEV-III LEV630 |
| B7 | Federal Tier 2 Bin 7 | L3ULEV570 | California LEV-III ULEV570 |
| B8 | Federal Tier 2 Bin 8 | L3ULEV400 | California LEV-III ULEV400 |
| B9 | Federal Tier 2 Bin 9 | L3ULEV270 | California LEV-III ULEV270 |
| B10 | Federal Tier 2 Bin 10 | L3SULEV230 | California LEV-III SULEV230 |
| B11 | Federal Tier 2 Bin 11 | L3SULEV200 | California LEV-III SULEV200 |
| HDV1 | HDV1 (Federal HD chassis Class 2b GVW 8501-10000) | T3B160 | Federal Tier 3 Bin 160 |
| HDV2 | HDV2 (Federal HD chassis Class 3 GVW 10001-14000) | T3B125 | Federal Tier 3 Bin 125 |
| L2 | California LEV-II LEV | T3B110 | Federal Tier 3 Transitional Bin 110 |
| L2OP | California LEV-II LEV Optional | T3B85 | Federal Tier 3 Transitional Bin 85 |
| U2 | California LEV-II ULEV | T3SULEV30 | Federal Tier 3 Transitional LEV-II SULEV30 Carryover |
| S2 | California LEV-II SULEV | T3B70 | Federal Tier 3 Bin 70 |
| ZEV | California ZEV | T3B50 | Federal Tier 3 Bin 50 |
| OT | Other | T3B30 | Federal Tier 3 Bin 30 |
| T1 | Federal Tier 1 | T3B20 | Federal Tier 3 Bin 20 |
| PZEV | California PZEV | T3B0 | Federal Tier 3 Bin 0 |
| L2LEV160 | California LEV-II LEV160 | HDV2B395 | Federal Tier 3 HD Class 2b Transitional Bin 395 |
| L2ULEV125 | California LEV-II ULEV125 | HDV2B340 | Federal Tier 3 HD Class 2b Transitional Bin 340 |
| L2SULEV30 | California LEV-II SULEV30 | HDV2B250 | Federal Tier 3 HD Class 2b Bin 250 |
| L2LEV395 | California LEV-II LEV395 | HDV2B200 | Federal Tier 3 HD Class 2b Bin 200 |
| L2ULEV340 | California LEV-II ULEV340 | HDV2B170 | Federal Tier 3 HD Class 2b Bin 170 |
| L2LEV630 | California LEV-II LEV630 | HDV2B150 | Federal Tier 3 HD Class 2b Bin 150 |
| L2ULEV570 | California LEV-II ULEV570 | HDV2B0 | Federal Tier 3 HD Class 2b Bin 0 |
| L3LEV160 | California LEV-III LEV160 | HDV3B630 | Federal Tier 3 HD Class 3 Transitional Bin 630 |
| L3ULEV125 | California LEV-III ULEV125 | HDV3B570 | Federal Tier 3 HD Class 3 Transitional Bin 570 |
| L3ULEV70 | California LEV-III ULEV70 | HDV3B400 | Federal Tier 3 HD Class 3 Bin 400 |
| L3ULEV50 | California LEV-III ULEV50 | HDV3B270 | Federal Tier 3 HD Class 3 Bin 270 |
| L3SULEV30 | California LEV-III SULEV30 | HDV3B230 | Federal Tier 3 HD Class 3 Bin 230 |
| L3SULEV20 | California LEV-III SULEV20 | HDV3B200 | Federal Tier 3 HD Class 3 Bin 200 |
| L3LEV395 | California LEV-III LEV395 | HDV3B0 | Federal Tier 3 HD Class 3 Bin 0 |
| 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 | | |

Certification Summary Information Report

| Test Group | HTYXV01.8P35 | Evaporative/Refueling Family | HTYXR0130J72 |
|--------------------------------------|---------------------------------|------------------------------|----------------------------------|
| 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 |