Fuel

| California Environmental Protection Agency AIR RESOURCES BOARD | TOYOTA MOTOR CORPORATION | EXECUTIVE ORDER A-014-0415 New Passenger Cars, Light-Duty Trucks and Medium-Duty Vehicles |
|---|---|---|

Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC), Div. 26, Part 5, Chap. 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-45-9;

**IT IS ORDERED AND RESOLVED:** That the following exhaust and evaporative emission control systems produced by the manufacturer are certified as described below. Production vehicles shall be in all material respects the same as those for which certification is granted.

| MODEL YEAR | TEST GROUP | VEHICLE TYPE | EXHAUST EMISSION STANDARD CATEGORY | FUEL TYPE |
|---|---|---|---|---|
| 2002 | 2TYXV02.4JJA | Passenger Car | Ultra Low Emission Vehicle (ULEV) | Gasoline |

| No. | EVAPORATIVE FAMILY (EVAP) |
|---|---|
| 1 | 2TYXR0135AK1 |
| 2 | * |
| 3 | * |
| 4 | * |

| No. | SPECIAL FEATURES & EMISSION CONTROL SYSTEMS (ECS) * = not applicable |
|---|---|
| 1 | WUTWC, TWC, HAFS, HO2S, SFI, OBD (P) |
| 2 | * |
| 3 | * |
| 4 | * |

TWC = 3-way catalytic converter; WUTWC = warm-up TWC; ADSTWC = adsorber TWC; O2S = oxygen sensor; HO2S = heated O2S; AFS = air / fuel sensor (aka. universal O2S); HAFS = heated AFS; EGR = exhaust gas recirculation; AIR = secondary air injection; PAIR = pulsed AIR; MFI = multiport fuel injection; SFI = sequential MFI; TC/SC = turbo/super charger; CAC = charge air cooler; OBD (F) / OBD (P) = on-board diagnostics; full / partial compliance; (prefix) 2 = parallel; (2) (suffix) = series

| EVAP No. | ECS No. | ENGINE SIZE (L) | VEHICLE MAKES & MODELS — VEHICLES SUBJECT TO SFTP STANDARDS ARE UNDERLINED |
|---|---|---|---|
| 1 | 1 | 2.4 | TOYOTA: CAMRY, CAMRY SOLARA, CAMRY SOLARA CONVERTIBLE |
| * | * | * | * |
| * | * | * | * |
| * | * | * | * |

The exhaust and evaporative emission standards (STD) and certification emission levels (CERT) for the listed vehicles are as follows. Any debit in the manufacturer's compliance plan for "NMOG Fleet Average" (passenger cars and light-duty trucks) or "Vehicle Equivalent Credit" (medium-duty vehicles) shall be equalized as required. The 50° Fahrenheit standards and CERT levels are listed below or compliance has been met based on the manufacturer's submitted compliance plan in lieu of actual testing.

| NMOG FLEET AVERAGE [g/mi] | | NMOG [g/mi] @ RAF = 0.94 CH4 RAF = * | | CH4 = methane; NMOG = non-CH4 organic gases; NMHC = non-CH4 hydrocarbons; CO = carbon monoxide; NOx = oxides of nitrogen; HCHO = formaldehyde; PM = particulate matter; RAF = reactivity adjustment factor | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CERT | STD | | | CO [g/mi] | | NOx [g/mi] | | HCHO [mg/mi] | | PM [g/mi] | | Hwy NOx [g/mi] | |
| 0.061 | 0.068 | CERT | STD | CERT | STD | CERT | STD | CERT | STD | CERT | STD | CERT | STD |
| K = 1000 miles | @ 50K | 0.031 | 0.040 | 0.5 | 1.7 | 0.1 | 0.2 | 0.4 | 8 | * | * | 0.05 | 0.3 |
| | @ 100K | 0.037 | 0.055 | 0.8 | 2.1 | 0.1 | 0.3 | 1 | 11 | * | * | 0.1 | 0.4 |
| | @ 50°F, 4K | 0.074 | 0.080 | 0.5 | 1.7 | 0.1 | 0.2 | 0.5 | 16 | * | * | * | * |

| CO [g/mi] @ 20°F, 50K | | g = gram; mg = milligram; mi = mile | NMHC+NOx [g/mi] (composite) | | NMHC+NOx [g/mi] [US06] | | CO [g/mi] [US06] | | NMHC+NOx [g/mi] [SC03] | | CO [g/mi] [SC03] | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CERT | STD | | CERT | STD | CERT | STD | CERT | STD | CERT | STD | CERT | STD |
| 1.5 | 10.0 | @ 4K | * | * | 0.03 | 0.14 | 4.3 | 8.0 | 0.03 | 0.20 | 0.1 | 2.7 |
| F = degree Fahrenheit | | @ 100K | * | * | * | * | * | * | * | * | * | * |

| @ 100K | EVAPORATIVE FAMILY 1 | | | | EVAPORATIVE FAMILY 2 | | | | EVAPORATIVE FAMILY 3 | | | | EVAPORATIVE FAMILY 4 | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 3-D | 2-D | RL | ORVR | 3-D | 2-D | RL | ORVR | 3-D | 2-D | RL | ORVR | 3-D | 2-D | RL | ORVR |
| CERT | 0.4 | 0.6 | 0.01 | 0.01 | * | * | * | * | * | * | * | * | * | * | * | * |
| STD | 2.0 | 2.5 | 0.05 | 0.20 | * | * | * | * | * | * | * | * | * | * | * | * |

2-D, 3-D [g/test] = 2-day, 3-day diurnal and hot-soak; RL [g/mi] = running loss; ORVR [g/gallon of fuel dispensed] = on-board refueling vapor recovery

**BE IT FURTHER RESOLVED:** That for the listed vehicle models, the manufacturer has attested to compliance with Title 13, California Code of Regulations, (13 CCR) Sections 1965 (labeling), 1968.1 or 1968.1(m)(6.2) (on-board diagnostic systems; full or partial compliance), 2035 et seq. (emission control warranty), 2235 (fuel tank fill pipes and openings), and "High-Altitude Requirements" and "Inspection and Maintenance Emission Standards" (California Exhaust Emission Standards and Test Procedures for 2001 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles).

Vehicles certified under this Executive Order shall conform to all applicable California emission regulations. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this 31st day of July 2001.

R. B. Summerfield, Chief
Mobile Source Operations Division