State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-14-344-B Relating to Certification of New Motor Vehicles

TOYOTA MOTOR CORPORATION

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapter 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-45-9;

IT IS ORDERED AND RESOLVED: That 1999 model-year Toyota Motor Corporation exhaust emission control systems are certified as described below for passenger cars:

Emission Standard Category: Transitional Low-Emission Vehicle (TLEV)

Fuel Type: Gasoline

Engine Family: XTYXV03.0DBF Displacement: 3.0 Liters (183 Cubic Inches)

Exhaust Emission Control Systems & Special Features:

Dual Three Way Catalytic Converters Dual Heated Oxygen Sensors (two) Sequential Multiport Fuel Injection

Vehicle models, transmissions, engine codes and evaporative emission control families are listed on attachments.

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon <u>Monoxide (20°F)</u>	
50,000	0.125	3.4	0.4	0.015	10.0	
100,000	0.156	4.2	0.6	0.018	n/a	

Reactivity Adjustment Factor (RAF) for NMOG Mass Emission: 0.98

The certification exhaust emission values set forth for non-methane organic gases (NMOG) reflect application of a 0.98 RAF for 1999 model-year TLEVs. The TLEV certification exhaust emission values for this engine family in grams per mile are:

Miles	Non-Methane Organic Gases	Carbon <u>Monoxide</u>	Oxides of <u>Nitrogen</u>	<u>Formaldehyde</u>	Carbon Monoxide (20°F)	
50,000	0.095	0.8	0.3	0.001	5.6	
100,000	0.125	1.1		0.002	n/a	

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the aforementioned exhaust emission standards based on its submitted plan to comply with the fleet average NMOG exhaust mass emission requirements as set forth in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That under the submitted NMOG fleet average compliance plan, if the manufacturer incurs a NMOG debit for the aforementioned model year based on the projected NMOG fleet average exceeding the value required by the above-referenced standards and test procedures, all incurred NMOG debits by the manufacturer shall be equalized as required by the standards and test procedures.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the running loss and useful life standards applicable to 1995 and subsequent model-year vehicles in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles," and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the "California Refueling Emission Standards and Test Procedures for 1998 and Subsequent Model Motor Vehicles," Title 13, California Code of Regulations, Section 1978, and the listed vehicle models comply with those standards.

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" for the aforementioned model year (Title 13, California Code of Regulations, Section 2235).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's high-altitude requirements and highway emission standards, and with the California Inspection and Maintenance emission standards in place at the time of certification, as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the vehicle manufacturer has demonstrated compliance with the exhaust emission standards at 50 degrees Fahrenheit as stipulated in "California Exhaust Emission Standards and Test Procedures for 1988 and Subsequent Model Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles."

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "California Motor Vehicle Emission Control and Smog Index Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the manufacturer is certifying the listed vehicle models with a partially complying on-board diagnostic system for the aforementioned model year pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(6.2) ("Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines").

BE IT FURTHER RESOLVED: That for the listed vehicles, the manufacturer has submitted and the Executive Officer hereby approves the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

Vehicles certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this __/2_B day of August 1998.

R) B. Summerfield, Chief
Mobile Source Operations Division

1999 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET PASSENGER CARS, LIGHT-DUTY TRUCKS AND MEDIUM-DUTY VEHICLES

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Manufacturer: TOYOTA Exh Eng Fam: XTYXV03.0DBF Evap Fam: XTYXR0150AK1							
All Eng Codes in Eng Fam: CA 49S 50S _x AB965 , ORVR: YES _x NO							
Exh Std: CA Tier-1 TLEV x LEV ULEV SULEV , US EPA Tier-1 x							
Veh Class(es): PC x LDT1 LDT2 MDV1 MDV2 MDV3 MDV4 MDV5							
Single Cert Std for Multi-Class Eng Fam: N/A (specify: N/A, LDT1, MDV1, MDV2, MDV3, MDV4)							
Fuel Type(s): Dedicated x Flex-Fuel Dual-Fuel Bi-Fuel Gasoline x Diesel							
CNG LNG LPG M85 Other (specify)							
Exh Emiss Test Fuel(s): Indo CBG x CNG LPG M85 Other (specify)							
Diesel: 13 CCR 2282 40 CFR 86.113-90 40 CFR 86.113-94							
Evaporative Emission Test Procedure: California Federal _x_							
Service Accum: Std AMA Mod AMA Mfr ADP _x Other (specify)							
NMOG Test Procedure: N/A Std _x Equiv R/L Test Proc: SHED _x Pt Source							
Engine Configuration: I-6 Displacement: 3.0 Liters 182.9 Cubic Inches							
Valves per Cylinder: 4 Rated HP1: 225@6000 RPM							
Engine: Front x Mid Rear Drive: FWD RWD x 4WD-FT 4WD-PT							
Exhaust ECS (e.g., MFI, EGR, TC, CAC): SFI,2HO2S(2),2TWC							
(use abbreviations per SAE J1930 JUN93)							

 Vehicle Models (if coded see attachment)	Trans. (M5, A4, etc.)	ETW or Test Wt	ł	11	EGR system	Catalytic Converter Part No.
 JZS160L-BEAQFA	L5	4000	8.5 8.9	89661-3A550 *1 89661-3A551 *2 89661-3A552 *3	- 1	46031

Comments: Please refer to manufacturer's HP list for correct dyno test HP setting based on model and equipment.

VEHICLE MODELS:

GS 300/-JZS160L-BEAQFA

Note: *1: Before running change 99-TR-6

*2: After running change 99-TR-6 and before running change 99-TR-11

*3: After running change 99-TR-11

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