

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-736

Relating to Certification of New Medium-Duty Motor Vehicles

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43835 of the Health and Safety Code; and

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

IT IS ORDERED AND RESOLVED: That 1996 model-year General Motors Corporation motor vehicles which have a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds are certified using the Otto-cycle engine listed below:

<u>Engine Manufacturer</u>	<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>		<u>Engine Model Year and Certification Executive Order No.</u>	
General Motors Corporation	TGM5.7CPGAEA	5.7	(350)	1996	A-6-733
	TGM7.4C8GAEA	7.4	(454)	1996	A-6-733

Engine models and codes are listed on attachments.

The certification exhaust emission standards for these engine families in grams per brake horsepower-hour are:

<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>
3.9	14.4

The certification exhaust emission values for these engine families in grams per brake horsepower-hour are:

<u>Engine Family</u>	<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>
TGM5.7CPGAEA	2.1	4.3
TGM7.4C8GAEA	2.8	9.3

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicle engines set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" (Title 13, California Code of Regulations, Section 1968.1) for the aforementioned model year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted 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.).

BE IT FURTHER RESOLVED: That the vehicle manufacturer is certifying the listed vehicle models to the 50,000-mile evaporative emission standards applicable to 1980 through 1994 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, based on the evaporative emission phase-in compliance schedule submitted by the vehicle manufacturer, the listed vehicle models shall not be subject to the running loss and useful life standards set forth in the "California Evaporative Emission Standards and Test Procedures for 1978 and Subsequent Model Motor Vehicles."

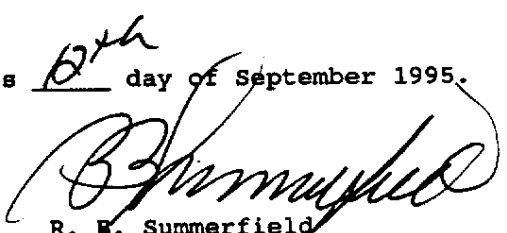
BE IT FURTHER RESOLVED: That the listed vehicle models also comply with the Board's "Specifications for Fill Pipes and Openings of Motor Vehicle Fuel Tanks" (Title 13, California Code of Regulations, Section 2235) for the aforementioned model year.

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

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 attachments.

Executed at El Monte, California this 12<sup>th</sup> day of September 1995.

  
R. E. Summerfield  
Assistant Division Chief  
Mobile Source Division

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
 INCOMPLETE MEDIUM-DUTY VEHICLE ENGINES  
 (CERTIFIED USING HEAVY-DUTY OTTO-CYCLE ENGINE TEST PROCEDURES)

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM5.7CPGAEA  
 ENGINE CONFIG: V8 VALVES/CYL: 2 DISPL: 5.7 LITERS 350 CID  
 CERT STD: TIER-1 X LEV\_\_\_ ULEV\_\_\_ ENG INTENDED SERVICE CLASS: M4 x M5 x  
 IN-USE STDS: FULL IN-USE X ALT IN-USE\_\_\_ MAX RATED POWER: 245 HP @ 4400 RPM  
 ALL ENG CODES IN ENG FAMILY: CA X 49S X 50S X  
 FUEL TYPE(S): DEDICATED X FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ BI-FUEL\_\_\_ GASOLINE X CNG\_\_\_  
 LNG\_\_\_ LPG\_\_\_ M85\_\_\_ M100\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 EMIS TEST FUEL(S): INDO X CNG\_\_\_ LPG\_\_\_ M85\_\_\_ M100\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 EXHAUST ECS (E.G., OC, TWC, MFI, IFI, TC, CAC): 2TWC, SFI, EGR, 2H<sub>2</sub>O<sub>2</sub>S(2)  
 (USE ABBREVIATIONS PER SAE J1930 SEP91)

ENGINE MODEL (ENG CODE)	RATED HP @ RPM	IGNITION SYSTEM OR ECM/PCM P/N	FUEL SYSTEM INJECTOR & PUMP P/N	EGR VALVE P/N	CATALYTIC CONVERTER P/N
L31 (5)	245 @ 4400	16213165+ 16187735 16187756 16187885	PART OF INTAKE MANIFOLD ASM 17096072	17096188	25160620: 2 USED

ISSUED: 07-20-95

REV. NO.:

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
 INCOMPLETE MEDIUM-DUTY VEHICLE ENGINES  
 (CERTIFIED USING HEAVY-DUTY OTTO-CYCLE ENGINE TEST PROCEDURES)

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM7.4C8GAEA  
 ENGINE CONFIG: V8 VALVES/CYL: 2 DISPL: 7.4 LITERS 454 CID  
 CERT STD: TIER-1 X LEV\_\_\_ ULEV\_\_\_ ENG INTENDED SERVICE CLASS: M4 X M5 X  
 IN-USE STDS: FULL IN-USE X ALT IN-USE\_\_\_ MAX RATED POWER: 290 HP @ 4200 RPM  
 ALL ENG CODES IN ENG FAMILY: CA X 49S X 50S X  
 FUEL TYPE(S): DEDICATED X FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ BI-FUEL\_\_\_ GASOLINE X CNG\_\_\_  
 LNG\_\_\_ LPG\_\_\_ M85\_\_\_ M100\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 EMIS TEST FUEL(S): INDO X CNG\_\_\_ LPG\_\_\_ M85\_\_\_ M100\_\_\_ OTHER (SPECIFY)\_\_\_\_\_  
 EXHAUST ECS (E.G., OC, TWC, MFI, IFI, TC, CAC): 2TWC, SFI, EGR, 2H<sub>2</sub>S(2)  
 (USE ABBREVIATIONS PER SAE J1930 SEP91)

ENGINE MODEL (ENG CODE)	RATED HP @ RPM	IGNITION SYSTEM OR ECM/PCM P/N	FUEL SYSTEM INJECTOR & PUMP P/N	EGR VALVE P/N	CATALYTIC CONVERTER P/N
L29 (5)	290 @ 4200	16177425+ 16187738 16187697	17096076	17096200	25160620: 2 USED

ISSUED: 07-20-95

REV. NO.: