

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-734

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

GENERAL MOTORS CORPORATION

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 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 the following 1996 model-year General Motors Corporation Otto-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Gasoline

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TGM5.7CPGAEA	5.7 (350)	Dual Three-Way Catalytic Converter Dual Heated Oxygen Sensor (2) Exhaust Gas Recirculation Sequential Multiport Fuel Injection
TGM7.4C8GAEA	7.4 (454)	Dual Three-Way Catalytic Converter Dual Heated Oxygen Sensor (2) Exhaust Gas Recirculation Sequential Multiport Fuel Injection

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>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.9	37.1	5.0

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


<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
TGM5.7CPGAEA	0.2	4.0	1.9
TGM7.4C8GAEA	0.3	8.9	2.2

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.).

Engines 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 31st day of August 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY OTTO-STANDARD ENGINES

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM5.7CPGAEA
 DISPLACEMENT: 5.7L 350 CUBIC INCHES
 ALL ENG CODES IN ENG FAMILY: CA X 49S X 50S X VALVES/CYLINDER: 2
 FUEL TYPE(S): DEDICATED X FLEX-FUEL ___ DUAL-FUEL ___ BI-FUEL ___ GASOLINE X CNG ___
 LNG ___ LPG ___ M85 ___ M100 ___ OTHER (SPECIFY) _____
 MAXIMUM RATED POWER: 245 HP @ 4400 RPM ENGINE CONFIGURATION: V8
 EXHAUST ECS (E.G., OC, TWC, MFI, EGR, TC, CAC): 2 TWC, SFI, EGR, 2 HO₂S (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 (3)	245 @ 4400	16213165+ 16187616 16187733 16187737 16187886 16187888	PART OF LOWER INTAKE MANIFOLD ASM 17096072	17096188	25160620: 2 USED
L31 (4)		16213165+ 16187614 16187887			

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY OTTO-STANDARD ENGINES

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM7.4C8GAEA
 DISPLACEMENT: 7.4L 454 CUBIC INCHES
 ALL ENG CODES IN ENG FAMILY: CA_X 49S_X 50S_X VALVES/CYLINDER: 2
 FUEL TYPE(S): DEDICATED_X FLEX-FUEL___ DUAL-FUEL___ BI-FUEL___ GASOLINE_X CNG___
 LNG___ LPG___ M85___ M100___ OTHER (SPECIFY)_____
 MAXIMUM RATED POWER: 290 HP @ 4200 RPM ENGINE CONFIGURATION: V8
 EXHAUST ECS (E.G., OC, TWC, MFI, EGR, TC, CAC): 2TWC, SFI, EGR, 2HO₂S(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 (3)	290 @ 4200	16177425+ 16187741 16187696 16187626 16192954	17096076	17096200	25160620: 2 USED
L29 (4)		16177425+ 16187629			