

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-878

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 1999 model-year General Motors Corporation Otto-cycle engines are certified for use in heavy-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) greater than 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>
XGMXH05.7582	5.7 (350)	Dual Three-Way Catalytic Converters Sequential Multiport Fuel Injection Exhaust Gas Recirculation Dual Heated Oxygen Sensors (2)
XGMXH07.4501	7.4 (454)	Dual Three-Way Catalytic Converters Sequential Multiport Fuel Injection Exhaust Gas Recirculation Dual Heated Oxygen Sensors (2)

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</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
1.9	37.1	4.0

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

<u>Engine Family</u>	<u>Non-Methane Hydrocarbon</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
XGMXH05.7582	0.2	3.8	1.7
XGMXH07.4501	0.4	11.2	3.0

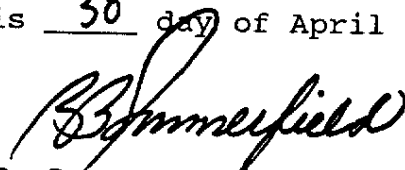
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

BE IT FURTHER RESOLVED: That the listed engine models 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 30<sup>th</sup> day of April 1998.



R. B. Summerfield, Chief  
Mobile Source Operations Division

**1999 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY OTTO-STANDARD ENGINES**

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: XGMXH05.7582

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: 255 HP @ 4600 RPM

ENGINE CONFIGURATION: V8

EXHAUST ECS (E.G., OC, TWC, MFI, IFI, TC, CAC): \_\_\_\_\_

2TWC, SFI, EGR, 2HO2S(2)

(USE ABBREVIATIONS PER SAE J1930 SEP91)

<u>ENGINE MODEL (ENG CODE)</u>	<u>RATED HP @ RPM</u>	<u>IGNITION SYSTEM OR ECM/PCM P/N</u>	<u>FUEL SYSTEM INJECTOR AND PUMP P/N</u>	<u>EGR VALVE P/N</u>	<u>CATALYTIC CONVERTER P/N</u>
L31 (12)	250 @ 4000	16258835/ 16263425PD-OPER 16216044, 16249491-ENG	PART OF LOWER INTAKE MANIFOLD ASM 17097280	25312788, 25312789	25160620: 2 USED
L31 (52)	235 @ 4000	16249385/ 16258745PC-OPER 16216037-ENG, 16258835/ 16263425PD-OPER 16249457, 16267284-ENG			

ISSUED: 02-24-98

REV. NO.: