

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-879

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>
XGMXH07.4502 (LP4 / L21)	7.4 (454)	Three-Way Catalytic Converters Sequential Multiport Fuel Injection Exhaust Gas Recirculation Dual Heated Oxygen Sensors

Engine models and codes are listed on attachments.

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

<u>Non-Methane Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>
0.5	8.0	1.5

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 27th day of May 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: XGMXH07.4502

DISPLACEMENT: 7.4L

454 CUBIC INCHES

ALL ENG CODES IN ENG FAMILY: CA__ 49S__ 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: 265 HP @ 3750 RPM

ENGINE CONFIGURATION: V8

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

TWC, SFI, EGR, 2HO2S

(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>
LP4 (10)	210 @ 3750	16239740/09354791, 16238131, 16238141, 16238151, 16238171, 16238181, 16238191, 16238271, 16238281, 16238291, 16238301, 1623811-CALIB	17098216	25313711	25160620
L21 (20)	265 @ 3750	16239740/09354741, 09354751, 09354761, 09354771, 16238231, 16238251, 16238331, 16238341, 16238381, 16238391-CALIB			

ISSUED: 001

REV. NO.: