

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-782

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 General Motors Corporation 1997 model year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters</u>	<u>(Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
VGM6.5C6DARW (L65)	6.5	(395)	Turbocharger Indirect Fuel Injection Engine Control Module

Engine models and codes are listed on attachments.

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

<u>Total Hydrocarbon</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

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


<u>Total Hydrocarbon</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
0.3	1.8	3.6	0.09

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 11 day of July 1997.

  
R. B. Summerfield, Chief  
Mobile Source Operations Division

**1997 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL-STANDARD ENGINES**

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: VGM6.5C6DARW

DISPLACEMENT: 6.5L 395 CUBIC INCHES

ALL ENG CODES IN ENG FAMILY: CA\_\_ 49S\_\_ 50S\_X STROKES/CYCLE: 4 VALVES/CYLINDER: 2

IGNITION: COMPRESSION\_\_ COMPRESSION WITH GLOW PLUG\_X SPARK\_\_

FUEL TYPE(S): DEDICATED\_X FLEX-FUEL\_\_ DUAL-FUEL\_\_ BI-FUEL\_\_ DIESEL\_X CNG\_\_  
LNG\_\_ LPG\_\_ M85\_\_ M100\_\_ OTHER \_\_\_\_\_

DIESEL CERT FUEL: 13 CCR 2282\_\_ 40 CFR 86.1313-90\_\_ 40 CFR 86.1313-94\_X

MAXIMUM RATED POWER: 190 HP @ 3200 RPM

ENGINE CONFIGURATION: V8

EXHAUST ECS (E.G., OC, EGR, PTOX, IFI, TC, CAC): IFI, TC, ~~EM~~ ECM

<u>ENG MODEL (ENG CODE)</u>	<u>RATED HP @ RPM</u>	<u>FUEL RATE @ RATED HP MM<sup>3</sup>/STROKE (LBS/HR)</u>	<u>FUEL PUMP &amp; INJECTOR P/N</u>	<u>ECM/PCM P/N</u>	<u>EGR VALVE P/N</u>	<u>PTOX/ CATALYTIC CONVERTER P/N</u>
L65 (1)	190 @ 3200	65.2 (98.3)	10225930 10233973 12558156	16249975	NA	NA
L65 (2)	175 @ 3200	60.9 (91.7)		16249985		

ISSUED: 005

REV. NO.: