State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-824

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 1998 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

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Engine Family	<u>Liters</u>	(Cubic	Inches)	Exhaust Emission Control Systems and Special Features
WGMXH06.5523 (L65)	6.5	(395)		Turbocharger Powertrain Control Module Oxidation Catalytic Converter Indirect Fuel Injection

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:

Total	Carbon	Nitrogen	<u>Particulates</u>
Hydrocarbon	<u>Monoxide</u>	Oxides	
1.3	15.5	4.0	0.10

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

Total	Carbon	Nitrogen	<u>Particulates</u>
Hydrocarbon	<u>Monoxide</u>	<u>Oxides</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 $\frac{23}{2}$ _ day of June 1997.

R. B. Summerfield, Chief Mobile Source Operations Division

1998 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: WGMXH06.5523

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 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, PCM

ENG MODEL (ENG CODE)	RATED HP @ RPM	FUEL RATE @ RATED HP MM³/STROKE (LBS/HR)	FUEL PUMP & INJECTOR P/N	ECM/PCM P/N	EGR VALVE	PTOX/ CATALYTIC CONVERTER P/N
L65 (1)	190 @ 3200	65.2 (98.3)	10225930 10233973 12558156	16249975	NA	NA
L65 (2)	175 @ 3200	60.9 (91.7)		16249985		