

State of California  
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-741

Relating to Certification of New Medium-Duty 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 diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) of 8,501 to 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
TGM6.5C6DABW	6.5 (395)	Indirect Fuel Injection Oxidation Catalytic Converter Turbocharger

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 + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>	<u>Particulates</u>
3.9	14.4	0.10

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

<u>Engine Family</u>	<u>Non-Methane Hydrocarbons + Nitrogen Oxides</u>	<u>Carbon Monoxide</u>	<u>Particulates</u>
TGM6.5C6DABW	3.6	0.9	0.07

BE IT FURTHER RESOLVED: That the listed engine models are certified to the optional standards and test procedures applicable to incomplete and diesel medium-duty vehicles of 8,501 to 14,000 pounds GVWR pursuant to Title 13, California Code of Regulations, Section 1956.8(g).

BE IT FURTHER RESOLVED: That the listed engine models shall be subject to the in-use compliance provisions applicable to 1995 and subsequent model-year medium-duty vehicles set forth in Title 13, California Code of Regulations, Section 2139(c).

BE IT FURTHER RESOLVED: That the listed engine models also comply with the "California Motor Vehicle Emission Control Label Specifications" for the aforementioned model year (Title 13, California Code of Regulations, Section 1965).

BE IT FURTHER RESOLVED: That the listed engine models are not subject to the "Malfunction and Diagnostic System for 1988 and Subsequent Model Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles with Three-Way Catalyst Systems and Feedback Control" (Title 13, California Code of Regulations, Section 1968) for the aforementioned model year.


BE IT FURTHER RESOLVED: That the listed engine models have been exempted from the "Malfunction and Diagnostic System Requirements--1994 and Subsequent Model-Year Passenger Cars, Light-Duty Trucks, and Medium-Duty Vehicles and Engines" pursuant to Title 13, California Code of Regulations, Section 1968.1(m)(2.0) for the aforementioned model year.

BE IT FURTHER RESOLVED: That 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 14<sup>th</sup> day of September 1995.

  
for R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
 DIESEL MEDIUM-DUTY VEHICLE ENGINES  
 (CERTIFIED USING HEAVY-DUTY DIESEL ENGINE TEST PROCEDURES)

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM6.5C6DABW  
 ENGINE CONFIG: V8 VALVES/CYL: 2 DISPLACEMENT: 6.5L 395 CUBIC INCHES  
 CERT STD: TIER-1 X LEV\_\_\_ ULEV\_\_\_ ENGINE INTENDED SERVICE CLASS: M4\_\_\_ M5\_\_\_  
 IN-USE STDS: FULL IN USE\_\_\_ ALT IN USE ✓ MAX RATED POWER: 200 HP @ 3400 RPM  
 ALL ENG CODES IN ENG FAMILY: CA\_\_\_ 49S\_\_\_ 50S X STROKES/CYCLE: 4  
 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 X 40 CFR 86.1313-90\_\_\_ 40 CFR 86.1313-94\_\_\_  
 CNG\_\_\_ LPG\_\_\_ M85\_\_\_ M100\_\_\_ OTHER\_\_\_  
 EXHAUST ECS (E.G., OC, EGR, PTOX, IFI, TC, CAC): IFI, OC, TC

ENGINE MODEL (ENG CODE)	RATED HP @ RPM	FUEL RATE @ RATED HP MM <sup>3</sup> /STROKE (LBS/HR)	FUEL PUMP & INJECTOR P/N	ECM/PCM P/N	EGR VALVE P/N	PTOX/ CATALYTIC CONVERTER P/N
L65 (1)	190 @ 3400	61.2 (92.3)	10225930 & 10233973	16217055 16228705 16228715 16228745	NA	25144421 25144427 25143882 25152218 25144425 25143891 25143901 25143188
L65 (2)	200 @ 3400	64.1 (96.6)		12551832		
L65 (5)	190 @ 3400	61.2 (92.3)		16226895 16228725 16228735		
L65 (6)	200 @ 3400	64.1 (96.6)		112551834		
L65 (7)	190 @ 3400	61.2 (92.3)		16228715		
L65 (8)	200 @ 3400	67.0 (101.0)		16217065		15963895
L65 (9)	190 @ 3400	65.1 (98.1)		16228755		15963895

ISSUED: 003

REV. NO.: