

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-732

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 1996 model 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 (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
TGM6.5C6DAAA	6.5	(395)	Oxidation Catalytic Converter
TGM6.5C6DABA	6.5	(395)	Turbocharger Oxidation Catalytic Converter
TGM6.5C6DABW	6.5	(395)	Turbocharger Oxidation Catalytic Converter

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

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

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TGM6.5C6DAAA	0.5	3.3	4.0	0.07
TGM6.5C6DABA	0.4	2.1	3.8	0.06
TGM6.5C6DABW	0.1	1.2	3.8	0.08

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 31st day of August 1995.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM6.5C6DAAA

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_X 40 CFR 86.1313-90___ 40 CFR 86.1313-94___

MAXIMUM RATED POWER: 160 HP @ 3400 RPM

ENGINE CONFIGURATION: V8

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

ENGINE MODEL (ENG CODE)	RATED HP @ RPM	FUEL RATE @ RATED HP MM ³ /STROKE (LBS/HR)	FUEL PUMP & INJECTOR P/N	ECM/PCM P/N	EGR VALVE P/N	PTOX/ CATALYTIC CONVERTER P/N
(1)	160 @ 3400	50.5 (76.1)	10229115 & 10233973	NA	NA	25143901 25153008
L57 (2)	150 @ 3400	45.5 (68.6)	10229119* & 10233973			
L57 (3)	127 @ 2600	47.0 (54.2)	10238969 & 10233973			

* High altitude

17-TGM6.5C6DABA-5

E.O. #A-6-732

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

MANUFACTURER: GENERAL MOTORS CORPORATION

ENGINE FAMILY: TGM6.5C6DABA

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 @ 3400 RPM

ENGINE CONFIGURATION: V8

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

<u>ENGINE MODEL</u> <u>(ENG CODE)</u>	<u>RATED HP</u> <u>@ RPM</u>	<u>FUEL RATE</u> <u>@ RATED HP</u> <u>MM³/STROKE</u> <u>(LBS/HR)</u>	<u>FUEL PUMP &</u> <u>INJECTOR P/N</u>	<u>ECM/PCM</u> <u>P/N</u>	<u>EGR VALVE</u> <u>P/N</u>	<u>PTOX/</u> <u>CATALYTIC</u> <u>CONVERTER</u> <u>P/N</u>
(1)	190 @ 3400	59.5 (89.7)	12551521 & 10233973	NA	NA	25143188

1996 MODEL YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

MANUFACTURER: GENERAL MOTORS CORPORATION ENGINE FAMILY: TGM6.5C6DABW
 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_X 40 CFR 86.1313-90__ 40 CFR 86.1313-94__
 MAXIMUM RATED POWER: 200 HP @ 3400 RPM ENGINE CONFIGURATION: V8
 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 ³ /STROKE (LBS/HR)	FUEL PUMP & INJECTOR P/N	ECM/PCM P/N	EGR VALVE P/N	PTOX/ CATALYTIC CONVERTER P/N
(1)	190 @ 3400	61.2 (92.3)	10225930 & 10233973	16216865 16216875 16216895 16216905	NA	25144421 25144427 25143882 25152218 25144425 25143891 25143901 25143188
L65 (2)	200 @ 3400	64.1 (96.6)		12551832		
L65 (3)	190 @ 3400	61.2 (92.3)		12551833		
L65 (5)	190 @ 3400	61.2 (92.3)		16215205 16215215 16215225		
L65 (6)	200 @ 3400	64.1 (96.6)		112551834		
L65 (7)	190 @ 3400	61.2 (92.3)		16216885 16216915		
L65 (8)	200 @ 3400	67.0 (101.0)		16217065		15963895