## 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

Engine Family	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
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:

Total <u>Hydrocarbons</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:

Engine	Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</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 3/ 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: T	GM6.5C6DAAA		
DISPLACEMENT: 6.5L		395 CUBIC INCHES			
ALL ENG CODES IN ENG FAMILY:	CA 49S 50S <u>_X</u>	STROKES/CYCLE: 4	VALVES/CYLINDER: 2		
IGNITION: COMPRESSION					
FUEL TYPE(S): DEDICATED.					
	M85 M100				
DIESEL CERT FUEL: 13 CCR 2282	2 <u>X</u> 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 MM³/STROKE (LBS/HR)	FUEL PUMP & . INJECTOR P/N	ECM/PCM P/N	EGR VALVE P/N	CATALYTIC CONVERTER P/N
(1)	160 @ 3400	50.5 (76.1)	10229115 & 10233973	NA NA	NA	25143901 25153008
L57 (2)	150 @ 3400	45.5 (68.6)	10229119* & 10233973			
L57 (3)	127 @ 2600	47.0 (54.2)	10238969 & 10233973			

205UED: 05-31-95

REV. NO.:

<sup>\*</sup> High altitude

# 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\_ LNG\_\_\_ LPG\_\_ M85\_\_ M100\_\_ OTHER \_\_\_\_\_ DIESEL CERT FUEL: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94<u>X</u> MAXIMUM RATED POWER: 190 HP @ 3400 RPM ENGINE CONFIGURATION: V8 EXHAUST ECS (E.G., OC, EGR, PTOX, IFI, TC, CAC): IFI, OC, TC FUEL RATE PTOX/ @ RATED HP MM³/STROKE CATALYTIC ENGINE MODEL RATED HP FUEL PUMP & ECM/PCM EGR VALVE CONVERTER (ENG CODE) @ RPM \_(LBS/HR) INJECTOR P/N P/N P/N P/N

12551521 &

10233973

NA

NA

25143188

(1)

190 @ 3400

59.5 (89.7)

SPARK

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

ENGINE FAMILY: TGM6.5C6DABW MANUFACTURER: GENERAL MOTORS CORPORATION DISPLACEMENT: 6.5L 395 CUBIC INCHES

ALL ENG CODES IN ENG FAMILY: CA 49S 50S X STROKES/CYCLE: 4 VALVES/CYLINDER: 2 IGNITION: COMPRESSION WITH GLOW PLUG X

FUEL TYPE(S): DEDICATED\_\_\_ FLEX-FUEL\_\_\_ DUAL-FUEL\_\_\_ BI-FUEL\_\_ DIESEL\_X CNG\_\_\_

LNG\_\_\_ LPG\_\_ M85\_\_ M100\_\_ OTHER \_\_\_\_

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 'FNG 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
(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)	٠	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

ISSUED: 05-31-95 REV. NO.: