

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-358
Relating to Certification of New Motor Vehicle Heavy-Duty 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-45-3;

IT IS ORDERED AND RESOLVED: That the following General Motors Corporation 1986 model-year diesel engines have shown compliance with the optional transient test procedure and standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches (Liters)</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
GGMO426FWF6	426 (7.0)	Throttle Delay (Diesel Injection - Direct) (Turbocharger) (Aftercooler)

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>
GGMO426FWF6	0.6	6.4	4.3

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all material required to demonstrate certification compliance with the Board's emission control system warranty regulations (Title 13, California Administrative Code, Section 2036).

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.

Executed at El Monte, California this 27th day of December, 1985.


K. D. Drachand, Chief
Mobile Source Division

1986 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer GENERAL MOTORS CORPORATION

Engine Family GGM0426FWF6 CID (Liter)-Type 426 (7.0) - L6

ECS (Special Features) Throttle Delay or Fuel Modulator, Aftercooler,
Turbocharger (DID)

Engine Model (Engine Code)	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Label Ident.
6L-71TA ALCC	NA	7G70 5229900	265 @ 2100	74.2	23500991
		7G75 5229905	285 @ 2100	79.5	
		7G75 5229905 Constant Power	230 @ 1950	68.1	
6L-71TA JWAC	NA	7G70 5229900	265 @ 2100	74.9	23500989
		7G70 5229900(1)	245 @ 1800	78.1	
		7G70 5229900(1)	250 @ 2100	74.6	
		7G75 5229905(1)	285 @ 2100	81.0	
		7G75 5229905(1)	264 @ 1800	84.0	
		7G75 5229905 Constant Power(1)	180 @ 1800	70.9	
		7G75 5229905(1)	270 @ 2100	80.0	

ISSUED: 12-12-85

REVISED: (1) Added new configurations by RC #13 on 02-04-86
(reference letter MH-6R016).

0190N/16N

G-M

ENGINE FAMILY SUMMARY
ENGINE MODEL 6L-7ITA (JWAC)

Injector Size	Fuel/Cycle		Torque @ RPM (SAE Gross)	Fuel/Cycle		Idle Speed (Min RPM)	Turbo Blower Part #	Basic Injector Timing (°BTC)	Air Cleaner Restriction Max (in. H ₂ O)	Exhaust Back Pressure Max (in. Hg)	Intake System Max Air Flow (lbs/hr)	Air Box Pressure Rated HP		Governor Type
	HP @ RPM (SAE Gross)	Max RHP		mm ³ /Stroke	Max Torque mm ³ /Stroke							Min (in. Hg)	Max (in. Hg)	
\$7670	265 @ 2100	74.9	104.7	792 @ 1200	85.2	68.0	8926900 or 8924621	3	20.0	2.5	3899	41.3	51.3	Limiting Speed
\$7670	245 @ 1800	78.1	93.5	792 @ 1200	85.2	68.0		3		2.0	3639	36.3	46.3	
\$7675	285 @ 2100	81.0	113.1	847 @ 1200	91.4	72.9		4		2.5	3985	44.7	54.7	
\$7675	264 @ 1800	84.0	100.6	847 @ 1200	91.4	72.9		4		2.0	3812	41.0	51.0	
\$7675(CP)	180 @ 1800 Min.	59.2	70.9	845 @ 1100	92.4	67.6		4		2.0	3032	41.0*	51.0*	Limiting Speed Constant Power

Speed derates are available for the above injectors between the maximum and minimum horsepower listed above.

Emission Control System: Aftercooler and Fuel Modulator or Throttle Delay.

\$ California Engines

* At full HP at 1800 rpm.

The above engine codes have 18.7:1 compression ratio and a bypass blower with 1.65 to 1 blower drive ratio.

JWAC - Jacket Water Aftercooled.

G-GM0426FWF6

A6-358

ISSUED: 003 REV. NO.:

0189N