State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-235 Relating to Certification of New 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-45-3;

IT IS ORDERED AND RESOLVED: That the following General Motors Corporation 1982 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displace Cubic Inches		Exhaust Emission Control Systems(Special Features)
CGM0426FWFX	426	(7.0)	Aftercooler Throttle Delay (Turbocharged)
CGM0552FWG5	552	(9.0)	Aftercooler Throttle Delay (Turbocharged)
CGM0736FWH2	736	(12.1)	Aftercooler Throttle Delay (Turbocharged)
CGM08.2DAB4 CGM08.2EAB7	500 500	(8.2) (8.2)	Engine Modification Engine Modification (Turbocharged)

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Hydrocarbons + Nitrogen Oxides gm/bhp-hr
CGM0426FWFX CGM0552FWG5	0.8 0.7	3 3	6.0
CGM0736FWH2	0.5		6.0 6.0
CGM08.2DAB4 CGM08.2EAB7	0.6 0.5	3	5.6

GENERAL MOTORS CORPORATION

EXECUTIVE ORDER A-6-235 (Page 2 of 2)

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 and attachment.

Executed at El Monte, California, this 30th day of Normali 1981

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K. D. Drachand, Chief Mobile Source Control Division

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHLET

Manufacturer <u>GENERAL MOTORS CORP</u> .	Executive Order No.	A-6-235	Page 1
Engine Family See Pages 2-6	Evaporative Family	NA	
	Engine CID (Liters)	See Pages 2-6	
ABBREVIATIONS			
Ignition System	Exhaust Emissions Co	ontrol System S	pecial Features

Ignition System CA-Centrifugal Advance EEC-Electronic Engine Control EI-Electronic Ignition ESAC-Electronic Spark Advance Control VA-Vacuum Advance VR-Vacuum Retard

Fuel System CFI, CL, DID, DIP, EFI, MFI nV-nVenturi Carburetor VV-Variable Venturi AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System TR-Thermal Reactor TWC-Three Way Catalyst System Special Features CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection-Direct DIP-Diesel Injection-Prechamber

MFI-Mechanical Fuel Injection TC-Turbocharged

DRIVE SYSTEM: NA

Issued: 113081.

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1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	General Motors Corpor	ation	Page 2	
Engine Family	CGM0426FWFX	СІС-Туре	426 - 6L	
ECS (Special Features)	Throttle Delay	and Aftercooler	(Turbocharged)	

Engine Model	Fuel Injection Pump Mfr. Part Number	Mfr. Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Label Ident.
6L-71TA	None	7G65 GMC 5229895	235 @ 2100	69.5	8923553
		7G70 GMC 5229900	250 @ 2100	73.6	
		7G75 GMC 5229905	270 @ 2100	79.3	
		7G75 Constant Power 5229905	180 @ 1800 Min.	60.8	

Date of Issue: 113081.

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E.O. #A-6-235

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	General Motors Corporati	ion	Page <u>3</u>
Engine Family	CGM0552FWG5	CID-Type	552 - V6
ECS (Special Features)		d Aftercooler	(Turbocharged)

Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Ra	ximum ted HP d RPM	Fuel R at Maxim HP	um	Label Ident.
			HP	RPM	mm ³ /st #1 D.F.	roke #2 D.F	•
6V-92TA	None			2100			8923553
		9F80 5226080	288			82.1	
		9F85 5226085	306			87.1	
		9F90 5226090	325			92.1	
	C	9F90 onstant Power 5226090	240	1800		76.8	
6V-92TA		7G65 5229895	<u>216</u> 232	2100	69.3	71.7	
		7G70 5229900 7G75	236 253 254 271		74.7 79.5	77.1	
		5229905 9E65 5229970	271 222 240	2100	69.9	<u>81.9</u> 71.9	
		9E70 5229975	240 260	2100	74.6	76.6	
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Date of Issue: 113081.

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E.O. #A-6-235

1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	General Motors C	orporation	Page <u>4</u>
Engine Family	CGM0736FWH2	CID-Type	<u>736 - V8</u>
ECS (Special Features)	0 Throttle D	RFUEL MODULATO elay, and Aftercooler	oR (Turbocharged)
		\wedge	

Engine Model	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.
8V-92TA	None	9F80 5226080	400 @ 2100	82.5	8923553
		9F85 5226085	425 @ 2100	87.5	
		9F90 5226090	440 @ 2100	92.5	
	(9F90 Constant Power 5226090	335 @ 1800 Min.	78.1	
8V-92TA	None	7G75 5229905	355 @ 1800	83.3	
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Date of Issue: 113081.

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1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	General Motors Corporation		Page	5	
Engine Family	CGM08.2DAB4	Liter-Type CID-Type		- V8 - V8	
ECS (Special Features)	Engine Modification				

Engine Model	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.
V8-8.2	None	4A53 GMC 5229850	165 @ 3000	52.5	8923634

Date of Issue: 113081.

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E.O. #A-6-235

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1982 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	General Motors Corpor		Page 6
Engine Family	CGM08.2EAB7	Liter-Type CID-Type	8.2 - V8 500 - V8
ECS (Special Features)	(Turbocharged)	Engine Modificat	tion

Engine Model	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.
V8-8.2T	None	4C65 5229915	205 @ 3000	64.9	8923633

Date of Issue: 113081.

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