File

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-1003

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 2001 model-year General Motors Corporation Otto-cycle engines are certified for use in heavy-duty vehicles with a manufacturer's gross vehicle weight rating (GVWR) greater than 14,000 pounds:

Fuel Type: Gasoline

Engine Family	Engine Displacement Liters (Cubic Inches)		Exhaust Emission Control Systems and Special Features
1GMXH08.1512	8.1	(496)	Three Way Catalytic Converter Sequential Multiport Fuel Injection Exhaust Gas Recirculation Dual Heated Oxygen Sensors

Engine models and codes are listed on attachments.

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

Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
1.9	37.1	4.0

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

Total Hydrocarbons	Carbon Monoxide	Nitrogen Oxides
0.8	7.6	1.7

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.).

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

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 3RD day of November 2000.

R. B. Summerfield, Chief
Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: General Motors Corporation
Engine category: On-highway HDGE
EPA Engine Family: 1GMXH08.1512
Mfr Family Name:
Process Code: New Submission

1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
10	L18	210@3600*	NA	NA	325@1600*	NA	NA	TWC,SFI, EGR,2HO2S, ~~CL,PCM~~
20	L18	270@3600*	NA	NA	400@2000*	NA	NA	
		*SAE NET			*SAE NET			

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(Attachment)

Part Number Summary Form

Manufacturer: **General Motors Corporation**

Engine category: **On-highway HDGE**

EPA Engine Family: **1GMXH08.1512**

Mfr Family Name:

Process Code: **New Submission**

Engine Code	Engine Model	Injection Pump	Injector	Turbo Charge	Electronic Control Module	After Treatment Device (Specify)	Smoke Puff Limiter	Sensor Assemblies Description	Sensor Assemblies Part Number
10	L18	NA	Fuel Rail 17200041	NA	12208511	Catalyst 12570477	NA	IAT	part of MAF
					09357657			ECT	12554944
					09357658			HO2S	12565414
					09357659			Knock	10456500
								Cr/Shf Posn	12556427
								MAP	09359409
								MAF	25168491
20	L18	NA	Fuel Rail 17200041	NA	12208511	Catalyst 12570477	NA	IAT	part of MAF
					09357660			ECT	12554944
					09357661			HO2S	12565414
					09357662			Knock	10456500
					09357663			Cr/Shf Posn	12556427
					09357664			MAP	09359409
								MAF	25168491

EO#: A-6-1003 (Attachment)

Part Number Summary Form

Manufacturer: **General Motors Corporation**

Engine category: **On-highway HDGE**

EPA Engine Family: **1GMXH08.1512**

Mfr Family Name:

Process Code: **New Submission**

Engine Code	Engine Model	Ign module	Intake Manifold	EGR	Throttle body	Throt Actr Mod			
10	L18	12558948	12558144	17200259	25317950	25311785			
		8 used		12567727		12569707			
20	L18	12558948	12558144	17200259	25317950	25311785			
		8 used		12567727		12569707			

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