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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-6-1002

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	~	Displacement ubic Inches)	Exhaust Emission Control Systems and Special Features							
1GMXH08.1503	8.1 (496)		Dual Three Way Catalytic Converters 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 <u>Hydrocarbons</u>	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 <u>Hydrocarbons</u>	Carbon Monoxide	Nitrogen Oxides					
0.2	7.4	1.2					

GENERAL MOTORS CORPORATION

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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).

Vehicles 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 $\frac{27}{40}$ day of March 2000.

R. B. Summerfield, Chief Mobile Source Operations Division

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ATTACHNENT

Manufacturer: Cueneral Motors Corporation Engine category: On-highway HDGE

EPA Engine Family. 1GMXH08.1503

Mfr Family Name:

Process Code: New Submission

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930		2TWC, SFI,	EGR, 2H02S,	-CL, PCM-	2TWC, SFI,	EGR, 2H02S,	ol, Pom .		7707101 000 - 10 - 10 - 10 - 10 - 10 - 1					-							
8.Fuel Rate: (lbs/hr)@peak torque		NA			NA				an bai an										•		
7.Fuel Rate: mm/stroke@peak torque		NA			NA		a - Marine - Marine - Andre														
6.Torque @ RPM (SEA Gross)		455@3200*			455@3200*					and a summarian a second and the statement of the statements of the second second second second second second s			ana magan barrar a san a sana ya ang a sana a s								
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)		NA			NA			SAE NET	· · · ·	an i su i su a su a su a su a su a su a su			sti utanutki ki si tu					-			
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)		NA			NA			4		nang pang mangangan dan pang mangangan ang pa			a nga sana na sana na sana na sana na sana na sana								
3.BHP@RPM (SAE Gross)		340@4200*			340@4200*		or a con company organization and a second and			and a second											
2.Engine Modeł		L18	and - management of the second for any or one way before the data water to be an an and		L18		a contraction of the second seco												ana upana dala ana any amin'ny ana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisiana amin'ny fisi		
1.Engine Code	50 state code	30			40														an earlier beide balle datum Berger, bennen geregengen gehenge datug eine seinen einen eine		

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