State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-31-23 Relating to Certification of New Heavy-Duty Motor Vehicle Engines

HINO MOTORS, LTD.

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 Hino Motors, Ltd. 1991 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Engine Family		Displacement <u>Liters (Cubic Inches)</u>		Exhaust Emission Control Systems (Special Features)		
MHM03.8FAA0		3.8	(234)	Turbocharger Charge Air Cooler		
MHM06.5FAA6		6.5	(396)	Turbocharger Charge Air Cooler		

Engine models and codes are listed on attachments.

The following are the certification emission standards for this engine family:

Hydrocarbons _gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
1.3	15.5	5.0	0.25

The following are the certification emission values for this engine family:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr	Particulates gm/bhp-hr
MHM03.8FAA0	0.4	1.3	4.2	0.19
MHM06.5FAA6	0.6	1.4	4.6	0.22

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 provisions (Health and Safety Code Section 43205.5).

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 4 day of February, 1991.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

E.O.# <u>A-31-23</u> Page <u>1</u>

01.00.00 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

LHOD

Manufacturer_	HINO MOTORS, LT	rD. Engine Fa	mily MHM03.8FAA0
Liters (CID)	3.839 (234)	Engine Type $\underline{\mathcal{I}}$.	4 Stroke cycle,
	rol Sys. & Special Fea		TC, CAC
(Use abbrevia	tions per SAE J1930 Ju	ın88)	

	tions per SAE				
Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap Catalyst Mfr. P/N
W04C-TH		Nippon Denso	150 @	0.094	N/A
	22010-6382	23610-1822	2,800		
	·				
	·		-		
	·				
. •					
		-			
			}		

E.O.# A-31-23

Q1.00.00 1991 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

MHDD

Manufacturer HINO MOTORS, LTD. Engine Family MHMO6.5FAA6	
Liters (CID) 6.485 (396) Engine Type $1-6$, 4 Stroke cycle	
Emission Control Sys. & Special Features TC, CAC	
(Use abbreviations per SAE J1930 Jun88)	

Engine Model (Eng. Code)	Fuel Pump Mfr. P/N	Injector Mfr. P/N	Rated HP @ RPM	Fuel Rate @ Rated HP cc/stroke	Part. Trap/ Catalyst Mfr. P/N
H06C-TM	Nippon Denso	Nippon Denso	225 @	0.107	N/A
	22010-6332	23610-1790	2,500		;
HOGC-TN	22010-6342	23610-1790	200 @ 2,500	0.094	N/A
					7
			. •		