

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-31-30

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., 1995 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
SHM3.8C7DARW	3.8 (234)	Engine Control Module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

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

<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.10

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

<u>Engine Family</u>	<u>Total Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
SHM3.8C7DARW	0.6	2.2	4.8	0.09

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.).

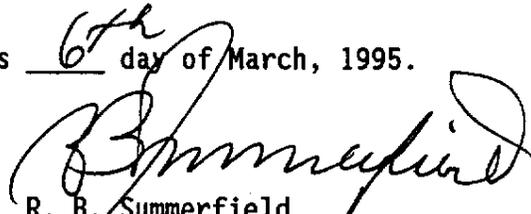
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Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this order and attachments.

Executed at El Monte, California this 6th day of March, 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

17.00.00.00 Sheets added by requirement of Mail Out #92-19
& Other information

17-1

E.O.# A-31-30

01.00.00 199_5 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

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Manufacturer HINO MOTORS, LTD. Engine Family SHM3.8C7DARW
 Displacement: 3.839 / Liters 234 / Cubic Inches
 Maximum Rated Power: 150 HP @ 2,800 RPM Engine Configuration: I-4
 Ignition: Compression X Compression with Glow Plug Spark
 Fuel Type(s): Dedicated Flex-Fuel Dual-Fuel Diesel X M100 M85
 CNG LNG LPG Other (specify)
 Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 X
 Primary Intended Service Class: LHD X MHD HHD Urban Bus
 Exhaust ECS (incl. MFI, TC, CAC): TC, CAC, ECM
 (use abbreviations per SAE J1930 SEP91)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ ₃ Rated HP mm ³ / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
W04C-TM	150 @ 2,800	91.0 (55.5)	Fuel Pump: Zexel Corp. Mech T/M; 696 (22000-8391) Auto T/M; 697 (22000-8401) Injector: Zexel Corp. Nozzle & holder set; 4M (23600-2671) Nozzle holder; - (23620-2321) Nozzle assy; 998 (23640-2251) { };Hino Inventory No.	ECM: Injection pump con- trol com- puter assy; 89560-2671	-	-

Date Issued: _____

Revisions: _____