State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-31-33

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1997 model-year Hino Motors, Ltd. diesel-cycle engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

Engine Family	Engine Displacement Liters (Cubic Inches)	Exhaust Emission Control Systems and Special Features
VHM8.0DHDARA	5.3/8.0 (324/486)	Turbocharger Charge Air Cooler Engine Control Module

Engine models and codes are listed on attachments.

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

Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
1.3	15.5	5.0	0.10

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

Engine Family	Hydrocarbons	Carbon Monoxide	Nitrogen Oxides	Particulates
VHM8.0DHDARA	0.3	1.2	4.7	0.10

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.).

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 12th day of November 1996.

John Kourakis for

R. B. Summerfield, Chief
Mobile Source Operations Division

17.01.00.00

E.O.# A-31-33

1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENT DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Hino Motors, Ltd. Engine Family: VHM8.0DHDARA

Displacement: 5307 Liters 324 Cubic Inches

All Eng Codes in Eng Family: CA ___ 49S ___ 50S X Strokes / Cylinder: 4 Valves / Cylinder: 4

Ignition: Compression ___ Compression with Glow Plug ___ Spark ___

Fuel Type(s): Dedicated X Flex-Fuel ___ Dual-Fuel ___ Bi-Fuel ___ Diesel X CNG ___

LNG ___ LPG ___ M85 ___ M100 ___ Other (specify) ___

Diesel Cert Fuel: 13 CCR 2282 ___ 40 CFR 86.1313-90 ___ 40 CFR 86.1313-94 X

Maximum Rated Power: 165 HP @ 2,500 RPM Engine Configuration I-4

Exhaust ECS (e.g.. PC, EGR, PTOX, IFI, TC, CAC) TC, CAC, ECM

(USE ABBREVIATIONS PER SAE J1930 SEP91)

Engine Model (ENG CODE)	Rated HP @RPM	Fuel Rate @Rated HP mm3 / stroke (lbs / hr)	Fuel Pump & Injector Part No.	ECM / PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
J05C-TB	165@2,500	113.0 (61.5)	FUEL PUMP Zexel Corp. 1)Mechanical T/M 833 (22000-9561) 2)Automatic T/M 834 (22000-9571) INJECTOR Zexel Corp. 1)Nozzle & holder set 30-3680 (23600-2971) 2)Nozzle holder - (23620-2540) 3)Nozzle assy 126 (23640-2491)	ECM Injection Pump Control Computer Assy 89560-3161	-	-

( ): Hino Inventory No.

Date Issued: September 20, 1996

Revisions:

17.01.00.00

E.O.# A-31-33

1997 MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENT DATA SHEET
HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: Hino Motors, Ltd. Engine Family: VHM8.0DHDARA

Displacement: 7.961 Liters 486 Cubic Inches

All Eng Codes in Eng Family: CA ___ 49S ___ 50S X Strokes / Cylinder: 4 Valves / Cylinder: 4

Ignition: Compression ___ Compression with Glow Plug ___ Spark ___

Fuel Type(s): Dedicated X Flex-Fuel ___ Dual-Fuel ___ Bi-Fuel ___ Diesel X CNG ___

LNG ___ LPG ___ M85 ___ M100 ___ Other (specify) ___

Diesel Cert Fuel: 13 CCR 2282 ___ 40 CFR 86.1313-90 ___ 40 CFR 86.1313-94 X

Maximum Rated Power: 250 HP @ 2,500 RPM Engine Configuration I-6

Exhaust ECS (e.g.. PC, EGR, PTOX, IFI, TC, CAC) TC, CAC, ECM

(USE ABBREVIATIONS PER SAE J1930 SEP91)

Engine Model (ENG CODE)	Rated HP @RPM	Fuel Rate @Rated HP mm3 / stroke (lbs / hr)	Fuel Pump & Injector Part No.	ECM / PCM Part No.	EGR Valve Part No	PTOX / Catalytic Converter Part No.
J08C-TD	200@2,500	93.0 (75.9)	FUEL PUMP Zexel Corp. 1)Mechanical T/M 824(22000-9491) 827(22000-9521) 2)Automatic T/M 826(22000-9511) 828(22000-9531) INJECTOR Zexel Corp. 1)Nozzle & holder set 30-3680 (23600-2971) 2)Nozzle holder - (23620-2540) 3)Nozzle assy 126 (23640-2491)	ECM Injection Pump Control Computer Assy 89560-3110	-	-
J08C-TE	250@2,500	115.0 (93.9)	FUEL PUMP Zexel Corp. 1)Mechanical T/M 823 (22000-9481) 2)Automatic T/M 825 (22000-9501) INJECTOR Zexel Corp. 1)Nozzle & holder set 30-3680 (23600-2971) 2)Nozzle holder - (23620-2540) 3)Nozzle assy 126 (23640-2491)			

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