

State of California  
AIR RESOURCES BOARD

## EXECUTIVE ORDER A-31-24

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. 1992 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
NHM03.8FAAX	3.8	234	Turbocharger Charge Air Cooler
NHM06.5FAA5	6.5	396	Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

The following are the certification emission standards for these engine families in grams per brake-horsepower-hour:

<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
1.3	15.5	5.0	0.25

The following are the certification emission values for these engine families in grams per brake-horsepower-hour:

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Carbon Monoxide</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
NHM03.8FAAX	0.4	1.3	4.2	0.19
NHM06.5FAA5	0.8	1.4	4.6	0.22

BE IT FURTHER RESOLVED: That the Executive Officer has been provided all materials required 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 4<sup>th</sup> day of February, 1992.



R. B. Summerfield  
Assistant Division Chief  
Mobile Source Division

17.00.00.00

Sheets added by Requirement of Mail out # 90-36 & Other Information

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01.00.00 1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

LHDD

Manufacturer HINO MOTORS, LTD. Engine Family NHM03.8FAAX

Liters (CID) 3.839 (234) Engine Type L-4, 4 Stroke cycle,

Emission Control Sys. & Special Features EM (DID, TC, C4C)  
(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
W04C-TH	NipponDenso 22010-6383 (Mech. T/M)  22010-6870 (Auto. T/M)	Nippon Denso 23610-1822	150 @ 2,800	0.094	N/A

Revisions:  
042090

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HEAVY-DUTY DIESEL ENGINES

MHDD

Manufacturer HINO MOTORS, LTD. Engine Family NHM06.5FAA5

Liters (CID) 6.485 ( 396 ) Engine Type L-6, 4 Stroke cycle

Emission Control Sys. & Special Features EM (DID, 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 22010-6333	Nippon Denso 23610-1790	225 @ 2,500	0.107	N/A

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HEAVY-DUTY DIESEL ENGINES

MHDD

Manufacturer HINO MOTORS LTD. Engine Family NHM06.5FAA5

Liters (CID) 6.485 (396) Engine Type L-6, 4 Stroke cycle,

Emission Control Sys. & Special Features EM (DID, 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-TN	Nippon Denso 22010-6343	Nippon Denso 23610-1790	200 @ 2,500	0.094	N/A

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01.00.00 1992 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET  
HEAVY-DUTY DIESEL ENGINES

MHDD

Manufacturer HINO MOTORS LTD. Engine Family NHM06.5FAA5

Liters (CID) 6.485 (396) Engine Type L-6, 4 Stroke cycle,

Emission Control Sys. & Special Features EM (DID, 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-TP	NipponDenso 22010-6840	NipponDenso 23610-1910	180 @ 2,500	0.088	N/A

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