

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-31-5
Relating to Certification of New 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. 1979 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

<u>Engine Family</u>	<u>Displacement Cubic Inches</u>	<u>Exhaust Emission Control Systems (Special Features)</u>
EH	393	Engine Modification

Engine Models and Codes as listed on attachments.

Section 43200, Part 5, Division 26 of the California Health and Safety Code requires that the engine manufacturer furnish a decal with each engine sold or delivered to a vehicle manufacturer. The decal shall display the applicable model year heavy-duty engine exhaust emission standards and the following certification emission values:

<u>Engine Family</u>	<u>Hydrocarbons gm/bhp-hr</u>	<u>Carbon Monoxide gm/bhp-hr</u>	<u>Nitrogen Oxides gm/bhp-hr</u>	<u>Hydrocarbons + Nitrogen Oxides gm/bhp-hr</u>
EH	NA	4	NA	5

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

The Department of Motor Vehicles, the California Highway Patrol, and the Bureau of Automotive Repair will be notified by copy of this order and attachment.

Executed at El Monte, California this 21 day of May, 1979.


G. C. Hass, Chief
Vehicle Emissions Control Division

1979 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer Hino Motors, Ltd.

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Engine Family EH

Engine (CID) 393

Emission Control Systems EM

Type Inline 6, naturally aspirated

Engine Model	Fuel Injection Pump Mfgr. Part Number	Injector Mfg. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Basic Initial Timing
EH 700	Hino 22010-2190 Nippon Denso 190000-2790	Hino 23610-1120 Nippon Denso 093500-1880	150 @ 3000	61.7 ± 1.5	13

EMISSION CONTROL INFORMATION

THIS ENGINE IS, IN ALL MATERIAL RESPECTS OF SUBSTANCE, THE SAME CONSTRUCTION AS TEST ENGINES CERTIFIED BY CALIFORNIA AIR RESOURCES BOARD AS CONFORMING TO STATE REGULATIONS PERTAINING TO EXHAUST EMISSIONS.

NAME AND TRADEMARK OF MFR:
HINO MOTORS, LTD. / *Hino*

ENGINE FAMILY IDENT. AND MODEL: EH/EH700
DATE OF MANUFACTURE:
ENGINE SPECIFICATIONS:
DISPLACEMENT: 393.2 IN³
EXHAUST EMISSION CONTROL SYSTEM: EM
ADVERTISED HORSEPOWER (SAE GROSS):
150 HP @ 3000 R.P.M.
ENGINE TUNE-UP SPECIFICATIONS AND ADJUSTMENTS:
INITIAL INJECTION TIMING: 13 DEG. B.T.D.C.
FUEL RATE @ ADVERTISED HP:
61.7 ± 1.5 MM³/STROKE
VALVE LASH: 0.012 IN. (SUC.), 0.016 IN. (EXH.)
HIGH IDLE: 3300-3400 R.P.M.

THIS ENGINE CONFORMS TO U.S. ENVIRONMENTAL PROTECTION AGENCY AND STATE OF CALIFORNIA AIR RESOURCES BOARD REGULATIONS APPLICABLE TO 1979 MODEL YEAR HEAVY-DUTY DIESEL ENGINES.

Date of Issue - 051779.

Abbreviations

Type

NA - Natural Aspiration
TC - Turbocharged
TCA - Turbocharged and Aftercooled

Emission Control Systems

AC - Aftercooler
EGR - Exhaust Gas Recirculation
TD - Throttle Delay