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#### State of California AIR RESOURCES BOARD

### EXECUTIVE ORDER A-31-14 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. 1985 model-year diesel engines have shown compliance with the optional transient standards and are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating greater than 8500 pounds:

Engine Family	Displacement Cubic Inches (Liters)		Exhaust Emission Control Systems (Special Features)		
FHM0065EAA1	396	(6.5)	Engine Modification (Diesel Injection - Direct) (Turbocharged)		
FHMOO67DAA6	411	(6.7)	Engine Modification (Diesel Injection - Direct)		
FHM0094DAA9	575	(9.4)	Engine Modification (Diesel Injection - Direct)		

Engine models and codes are listed on attachments.

The following are the certification emission values for these engine families:

Engine Family	Hydrocarbons gm/bhp-hr	Carbon Monoxide gm/bhp-hr	Nitrogen Oxides gm/bhp-hr
FHM0065EAA1	0.9	1.9	4.8
FHM0067DAA6	0.7	3.2	4.5
FHM0094DAA9	0.6	2.2	4.3

HINO MOTORS, LTD.

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 regulations (Title 13, California Administrative Code, Section 2036).

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.

Executed at El Monte, California this  $\underline{19}^{\pi}$ 

day of September, 1984.

K. D. Drachand, Chief Mobile Source Division

## 1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET

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Manufacturer	HINO MOTORS,	LTD. Executive Order No.	A-31-14
Engine Family _	FHM0065EAA1	Evaporative Family	NA
	FHMOO67DAA6 FHMOO94DAA9	Engine CID (Liters) _	396 (6.485) 411 (6.728) 575 (9.419)
ABBREVIATIONS			
Ignition System		Exhaust Emissions Control System	Special Features
CA-Centrifugal EEC-Electronic I EI-Electronic I ESAC-Electronic Control VA-Vacuum Advan VR-Vacuum Retard	Engine Control gnition Spark Advance ce	AIP-Air Injection-Pump AIV-Air Injection-Valve CL-Closed Loop EGR-Exhaust Gas Recirculation EM-Engine Modification OC-Oxidation Catalyst System TOC-Trap Oxidizer Continual TOP-Trap Oxidizer Periodical TR-Thermal Reactor TWC-Three-Way Catalyst System	CCV-Combustion Chamber Valve CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber
Fuel System CF1, CL, DID, DI nV-nVenturi Cart VV-Variable Vent	ouretor		EFI-Electronic Fuel Injection IC - Intercooler MFI-Mechanical Fuel Injection TC-Turbocharged
VEHICLE MODELS:			

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VE SYSTEM: NA Engine/ NA -Uneel Drive

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		1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES A-31-14-						
	Manufacturer	HINO MOTORS, LT	D		Page	2		
	Engine Family	CID(Liter)-Type 396 (6.485)-L6						
	ECS and (Specia	l Features) ENG	INE MODIFICAT	ION $(DID)$	<i>TC</i> )			
	Engine Model	Fuel Injection Pump Mfr.	Injector Mfr.	Maximum Rated HP and RPM	Fuel Rate at Maximum HP	Label Ident.		
		Part Number	Part Number		mm <sup>3</sup> /stroke			
	H06C-TD	Nippon Denso	Nippon Denso	175@ 3,000	73	H06C-TD Calif. &		
		22010-3781	23610-1412	3,000		49 States		
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Date of Issue -

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Manufacturer HINO MOTORS, LTD.   Engine Family IFHM0067DAA6   CID(Liter)-Type 411 (6.728) - L6   ECS(Special Features) ENGINE MODIFICATION (DID)						
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum <sup>3HP</sup> mm <sup>3</sup> /stroke	Label Ident.	
H07C-C	Nippon Denso 22010-4050	Nippon Denso 23610-1390	155@ 3,000	67	H07C-C Calif. & 49 State	

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E.O. #A-31-14

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Fraina Family	HINO MOTORS, LTC FHM0094DAA9	CID(Liter)-Type 575(9.419) - L6				
ECS (Special Fe	atures <u>) ENGINE</u>		Maximum	Fuel Rate	Label	
Engine Model	Fuel Injection Pump Mfr.	Injector Mfr.	Rated HP and RPM	at Maximum	Ident.	
	Part Number	Part Number		HP mm <sup>3</sup> /stroke		
EM100F	Nippon Denso 22010-4100	Nippon Denso 23610-1430	1900 2,700	88	EM100F Calif. & 49 States	
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