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	Displac Cubic Inche		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

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 $\underline{\mathscr{G}^{\pi}}$

day of September, 1984.

K. D. Drachand, Chief Mobile Source Division

 Manufacturer	HINO MOTORS,	LTD	Executive Order No.	A-31-14	. •
Engine Family _	FHM0065EAA1		Evaporative Family	NA	
	FHMO067DAA6 FHMO094DAA9		Engine CID (Liters)	396 (6.485) 411 (6.728)	
ABBREVIATIONS		•		575 (9.419)	
Ignition System	. •	Exhaust E	missions Control System	Special Features	<u>.</u>
CA-Centrifugal EEC-Electronic EI-Electronic I ESAC-Electronic Control VA-Vacuum Advan VR-Vacuum Retar	Engine Control gnition Spark Advance ce	AIV-Air I CL-Closed EGR-Exhau EM-Engine OC-Oxidat TOC-Trap (TOP-Trap (TR-Therma	st Gas Recirculation Modification ion Catalyst System Oxidizer Continual Oxidizer Periodical	CCV-Combustion. Chamber Val CFI-Central Fuel Injection DID-Diesel Injection- Direct DIP-Diesel Injection- Prechamber	
Fuel System CFI, CL, DID, D nV-nVenturi Car VV-Variable Ven	buretor			EFI-Electronic Fuel Injection IC - Intercooler MFI-Mechanical Fuel Injection TC-Turbocharged	•

VEHICLE MODELS:

IVE	SYSTEM:	NA	Engine/	<i>NA</i>	-Uhee l	Drive
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1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

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-	Manufacturer	HINO MOTORS, LT	d'D.		Page	2
	Engine Family	FHM0065EAA1		ID(Liter)-Ty	pe_396 (6.4	85)-L6
	ECS and (Specia	l Features) ENC	GINE MODIFICAT	ION (DID),	1C)	
	Engine Model	Fuel Injection Pump Mfr.	Injector Mfr.	Maximum Rated HP and RPM	Fuel Rate at Maximum HP mm ³ /stroke	Label Ident.
		Part Number	Part Number		mm ³ /stroke	
	HO6C-TD	Nippon Denso 22010-3781	Nippon Denso 23610-1412	175@ 3,000	73	H06C-TD Calif. & 49 States

Date of Issue -

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer HINO MOTORS, LTD. Engine Family FHM0067DAA6 CID(ECS (Special Features) ENGINE MODIFICATION (2)				Page <u>3</u> (Liter)-Type <u>411 (6.728) - L6</u> (DID)			
Engine Model	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP and RPM	Fuel Rate at Maximum 3HP mm ³ /stroke	Label Ident.		
H07C-C	Nippon Denso 22010-4050	Nippon Denso 23610-1390	155@3,000	67	H07C-C Calif. & 49 States		

1985 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL ENGINES

Manufacturer	HINO MOTORS, LTC). C1	D(Liter)-Ty	Page <u>4</u> pe 575 (9.41	9) - L6
Ingine Family_	FHM0094DAA9		(DID)		
ECS(Special Fea	stures <u>) ENGINE</u>	40D1110	Maximum	Fuel Rate	Label
Engine Model	Fuel Injection Pump Mfr.	Injector	Rated HP and RPM	at Maximum 3HP mm³/stroke	Ident.
	Part Number	Part Number		·	
EM100F	Nippon Denso	Nippon Denso	1900	88	EM100F Calif. &
	22010-4100	23610-1430	2,700		49 States
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