

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-276-6
Relating to Certification of New Heavy-Duty Motor Vehicle Engines

NISSAN DIESEL MOTOR CO., 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 Nissan Diesel Motor Co., Ltd. 1989 model-year diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

<u>Engine Family</u>	<u>Displacement</u> <u>Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems</u> <u>(Special Features)</u>
KND0211EAB5	3.5	(211)	Engine Modification (Diesel Injection - Direct) (Turbocharger)
KND0423DAA4	6.9	(423)	Engine Modification (Diesel Injection - Direct)
KND0423EAB8	6.9	(423)	Engine Modification (Diesel Injection - Direct) (Turbocharger)
KND0452EAB8	7.4	(452)	Engine Modification (Diesel Injection - Direct) (Turbocharger)

Engine models and codes are listed on attachments.

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

<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon</u> <u>Monoxide</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
1.3	15.5	6.0	0.60

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

<u>Engine Family</u>	<u>Hydrocarbons</u> <u>gm/bhp-hr</u>	<u>Carbon</u> <u>Monoxide</u> <u>gm/bhp-hr</u>	<u>Nitrogen Oxides</u> <u>gm/bhp-hr</u>	<u>Particulates</u> <u>gm/bhp-hr</u>
KND0211EAB5	0.8	1.9	5.2	0.43
KND0423DAA4	0.9	3.3	5.0	0.48

<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>Particulates gm/bhp-hr</u>
KND0423EAB8	1.2	2.5	5.5	0.30
KND0452EAB8	0.8	2.1	5.1	0.44

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 and attachments.

Executed at El Monte, California this 15 day of July, 1988.



K. D. Drachand, Chief
Mobile Source Division

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HEAVY-DUTY DIESEL ENGINESLHDD

Manufacturer NISSAN DIESEL MOTOR CO., LTD. Engine Family KNDO211EAB5
 Liters (CID) 3.465 (211) Engine Type Inline 4
 Emission Control Sys. and (Special Features) EM (DID, TC)

Engine Model (Code)	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/stroke (lbs/Hr)
FD35T (FD35T)	DIESEL KIKI CO., LTD.: 16700 01D01	DIESEL KIKI CO., LTD.: 16600 01D02	120 HP @ 3500 RPM	67.5 (52.9)	210 lbs.ft @ 2000 RPM	72.0 (32.3)

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Revision No.			
Date			

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 HEAVY-DUTY DIESEL ENGINES

MHDD

Manufacturer NISSAN DIESEL MOTOR CO., LTD. Engine Family : KND0423DAA4
 Liters (CID) 6.925 (423) Engine Type Inline 6
 Emission Control Sys. and (Special Features) EM (DID)

Engine Model (Code)	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/stroke (lbs/Hr)
FE6 (FE6)	DIESEL KIKI CO., LTD.: 16713 Z5666	DIESEL KIKI CO., LTD.: 16600 Z5569	160 HP @ 3000 RPM	67.0 (67.5)	332 lbs.ft @ 1600 RPM	68.0 (36.5)

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MH00

Manufacturer NISSAN DIESEL MOTOR CO.,LTD. Engine Family : KND0423EAB8
 Liters (CID) 6.925 (423) Engine Type Inline 6
 Emission Control Sys. and (Special Features) EM (DID , TC)

Engine Model (Code)	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/stroke (lbs/Hr)
FE6T (FE6T)	DIESEL KIKI CO.,LTD 16713 Z5678	DIESEL KIKI CO.,LTD. 16600 Z5570	180 HP @ 3000 RPM	71.5 (72.0)	332 lbs.ft @ 1800 RPM	64.4 (38.9)

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HEAVY-DUTY DIESEL ENGINESMHDD

Manufacturer NISSAN DIESEL MOTOR CO., LTD. Engine Family : KND0452EAB8
 Liters (CID) 7.412 (452) Engine Type Inline 6
 Emission Control Sys. and (Special Features) EM (DID , TC)

Engine Model (Code)	Fuel Injection Pump Mfr. Part Number	Injector Mfr. Part Number	Maximum Rated HP at RPM	Fuel Rate mm3/stroke (lbs/Hr)	Maximum Rated Torque at RPM	Fuel Rate mm3/stroke (lbs/Hr)
NE6T (NE6T)	DIESEL KIKI CO.,LTD 16713 95106	DIESEL KIKI CO.,LTD. 16600 95015	210 HP @ 2,800 RPM	92.5 (87.0)	456 lbs.ft @ 1800	93.0 (56.2)

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