California Environmental Protection Agency AIR RESOURCES BOARD	NISSAN MOTOR CO., LTD.	EXECUTIVE ORDER U-L-001-0036 New Off-Road Large Spark-Ignition Engines At & Above 25 Horsepower

Pursuant to the authority vested in the Air Resources Board by the Health and Safety Code, Division 26, Part 5, Chapters 1 and 2; and

Pursuant to the authority vested in the undersigned by Health and Safety Code Sections 39515 and 39516 and Executive Order G-02-003;

IT IS ORDERED AND RESOLVED: That the following new large spark-ignition engines and emission control systems produced by the manufacturer are certified for use in off-road equipment as described below. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE
2007	7NSXB02.548C	2.5	Dual Fuel, Gasoline or LPG

DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE
5000	Multiport Fuel Injection (Gas and Dual Fuel), Throttle Body Injection (LPG), Three-Way Catalytic Converter, Heated Oxygen Sensor	Forklift

ENGINE MODELS (rated power in horsepower, hp)	See Attached Model Pages

The following are the hydrocarbon plus oxides of nitrogen (HC+NOx) and carbon monoxide (CO) exhaust certification emission standards (Title 13, California Code of Regulations, (13 CCR) Section 2433(b)(1)) and certification emission levels for this engine family in grams per brake horsepower-hour (g/bhp-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(2).

(g/bhp-hr)	HC+NOx	CO
Exhaust Standards	1.0	15.5
Certification Levels	0.4	4.9

The following is the evaporative hydrocarbon emission standard (13 CCR Section 2433(b)(3)) and certification emission level for this engine family in grams per gallon of fuel tank capacity (g/gallon).

Evaporative Certification Method	HC Cert. Level (g/gallon)	HC Cert. Standard (g/gallon)
Design Based	N/A	0.2

BE IT FURTHER RESOLVED: That for the listed engines for the aforementioned model-year, the manufacturer has submitted, and the Executive Officer hereby approves, the information and materials to demonstrate certification compliance with 13 CCR Section 2433(c) (certification and test procedures), 13 CCR Section 2434 (emission control labels), and 13 CCR Sections 2435 and 2436 (emission control system warranty).

BE IT FURTHER RESOLVED: That the listed engine models have been certified to the optional HC+NOx and CO emission standard(s) listed above pursuant to 13 CCR 2433 (b)(1).

BE IT FURTHER RESOLVED: That the listed engines are permitted conditionally upon final approval by the Office of Administrative Law of the amendments to the Regulations For New Emission Standards, Fleet Requirements, And Test Procedures For Forklifts And Other Industrial Equipment (13 CCR Section 2433(c) (certification and test procedures), 13 CCR Section 2434 (emission control labels), and 13 CCR Sections 2435 and 2436 (emission control system warranty)) approved by the Board at the May 25, 2006 public hearing. In the event that the amendments do not become effective, engines in this engine family will be deemed uncertified.

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

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 13 day of September 2006.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT Pg 1 of 1

Model Year: 2007
Manufacturer Name: NISSAN MOTOR CO., LTD
Engine Family: 7NSXB02.548C
OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Page:
Issued: 06/20/2006
Revised:
E.O.#: U-L-001-0036

S12. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

S13. Engine Model	S14. Engine Code	S15. Sales Codes (Check ALL appropriate)			S16. Eng. Displ. (Liters)	S17. Rated Power (HP)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
		Calif. Only	49-State	50-State					
K25 N-1				V	2.488	57.3	2700	116.6	1620
K25 N-2				V	2.488	57.5	2700	134.9	1620
K25 N-3	(Gasoline)			V	2.488	57.3	2700	116.6	1620
	(LPG)			V	2.488	56.4	2700	132.8	1620
K25 M-1				V	2.488	57.1	2700	116.5	1620
K25 M-2				V	2.488	57.3	2700	134.8	1620
K25 M-3	(Gasoline)			V	2.488	57.1	2700	116.5	1620
	(LPG)			V	2.488	56.4	2700	132.7	1620
K25 K-1				V	2.488	57.2	2700	116.7	1620
K25 K-2				V	2.488	57.5	2700	135.3	1620
K25 K-3	(Gasoline)			V	2.488	57.2	2700	116.7	1620
	(LPG)			V	2.488	56.5	2700	133.8	1620
*K25 T-1				V	2.488	57.5	2800	115.7	1680
K25 T-2				V	2.488	57.9	2800	134.9	1680
K25 T-3	(Gasoline)			V	2.488	57.5	2800	115.7	1680
	(LPG)			V	2.488	56.8	2800	132.8	1680