



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
2008	8NSXB02.147C	2.1	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 kilowatt, kW)		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 kilowatt-hour (g/kW-hr). Engines within this engine family shall have closed crankcases in conformance with 13 CCR Section 2433(b)(3) of "California Exhaust and Evaporative Emission Standards and Test Procedures for New 2007 through 2009 Off-Road Large Spark-ignition Engines (2007- 2009 Test Procedure 1048)" amended March 2, 2007.

(g/kW-hr)	HC+NOx	CO
Exhaust Standards	1.3	11.1
Certification Levels	0.6	6.3

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 Certification Level (g/gallon)	HC Certification 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).

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 30 day of August 2007.

Annette Hebert, Chief
Mobile Source Operations Division

Model Year: 2008
 Manufacturer Name: NISSAN MOTOR CO., LTD
 Engine Family: 8NSXB02.147C
 OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

Page: _____
 Issued: 06/20/2007
 Revised: _____
 E.O.#: U-L-001-003b

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 (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (Nm)	S20. Peak Torque Speed (RPM)
		Calif. Only	49-State	50-State					
K21 N-1				V	2.065	34.3	2700	135.8	1800
K21 N-2				V	2.065	37.4	2700	145.4	1800
K21 N-3	(Gasoline)			V	2.065	34.3	2700	135.8	1800
	(LPG)			V	2.065	35.8	2700	145.3	1800
K21 M-1				V	2.065	34.1	2700	135.5	1800
K21 M-2				V	2.065	37.3	2700	145.1	1800
K21 M-3	(Gasoline)			V	2.065	34.1	2700	135.5	1800
	(LPG)			V	2.065	35.5	2700	145.0	1800
*K21 K-1				V	2.065	35.1	2700	136.4	1800
K21 K-2				V	2.065	38.8	2700	146.2	1800
K21 K-3	(Gasoline)			V	2.065	35.1	2700	136.4	1800
	(LPG)			V	2.065	37.3	2700	145.9	1800
K21 T-1				V	2.065	32.1	2700	136.0	1800
K21 T-2				V	2.065	37.0	2700	144.9	1800
K21 T-3	(Gasoline)			V	2.065	32.1	2700	136.0	1800
	(LPG)			V	2.065	34.8	2700	144.1	1800