ZENITH POWER PRODUCTS

EXECUTIVE ORDER U-L-020-0010 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	NAME 006 6ZPPB01.3XXX		ENGINE DISPLACEMENT (liters)	FUEL TYPE			
2006			1.3	Gasoline, LPG, Dual Fuel (Gasoline, LPG)			
DURABILITY HOURS			AL FEATURES & CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE			
3500		Three-Way Ca Oxygen Sensor,	stalytic Converter, Heated Throttle Body Fuel Injection	Generator, Sweeper, Tractor, Chipper, Welder and Pre-Empted Equipment			
ENGINE MODELS (rated power in horsepower, hp)			1.3 L Nissan [Gas (46 HP), LPG (45 HP), Dual Fuel (Gas, LPG) (46 HP)]				

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	СО
Standards	3.0	37.0
Certification Levels	2.8	2.7

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).

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 18⁷⁴ day of May 2006.

Allen Lyons, Chief

Mobile Source Operations Division

ATTACHMENT 10.	F 1
----------------	-----

Model Year:	2006	Page:
Manufacturer Name:	Zenith Power Products	Issued:
Engine Family:	6ZPPB01.3XXX	Revised:
OFF-ROAD LSI ENGINE S	UPPLEMENTAL INFORMATION	E.O.#: 11-L-020-0010

\$12. MODEL SUMMARY (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

D42	544		645		C40	C47	C40	C40	
S13.	S14.	S15. Sales Codes (Check ALL appropriate)		S16.	S17.	S18.	S19.	S20.	
Engine	Engine			Eng. Displ.	Rated Power	Rated Speed	Peak Torque	Peak Torque	
Model	Code								
					(Liters)	(HP)	(RPM)	(FT-LB)	Speed
1	1	Calif.	49-	50-					(RPM)
		Only	State	State					
1.3L Nissan	Gas only	X		Х	1.3	46	3,600	74	2,600
1.3L Nissan	LP only	Х		X	1.3	45	3,600	72	2,400
1.3L Nissan	Dual	X		Х	1.3	46	3,600	74	2,600
	<u></u>					-	<u> </u>		
;									,
							i		
									<u></u>
	<u> </u>					-	ļ <u>.</u>		
			,						
				<u>-</u>					
							:		
				-					
					1		<u> </u>		<u></u>
				<u> </u>		 			<u>-</u>
			-						

-				_	-	1			
		<u> </u>	-	 		1			<u></u>
L				1					l