ZENITH POWER PRODUCTS

EXECUTIVE ORDER U-L-020-0014 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		NGINE FAMILY NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE			
2006	6	ZPPB.998XXX	0.998	Gasoline, LPG, Dual Fuel (Gasoline, LPG)			
DURABILITY HOURS 1000		EMISSION	IAL FEATURES & CONTROL SYSTEMS PI, HO2S, TWC	TYPICAL EQUIPMENT USAGE Generator, Sweeper, Compressor, Tractor, Chipper, Welder			
ENGINE MODELS (rated power in horsepower, hp)			0.998L Hyundai (36 & 37 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 horsepowerhour (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	9.0	410		
Certification Levels	3.3	10		

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(d) (certification and test procedures), 13 CCR Section 2404 (emission control labels), and 13 CCR Sections 2405 and 2406 (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 28 day of July 2006.

Annette Hebert, Chief

Mobile Source Operations Division

ATTACHME.	VT 1 OF 1
-----------	-----------

Model Year:	2006	Page:
Manufacturer Name:	Zenith Power Products	Issued:
Engine Family:	6ZPPB.998XXX	Revised:
OFF-ROAD LSLENGING	SUPPLEMENTAL INFORMATION	EO# U= -020-0014

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

S13.	S14.		S15. ales Cod		S16.	S17.	S18.	S19.	S20.
Engine Model	Engine Code	(Check ALL appropriate)		Eng. Displ. (Liters)	Rated Power (HP)	Rated Speed (RPM)	Peak Torque (FT-LB)	Peak Torque Speed	
		Calif. Only	49- State	50- State	, ,	` '			(RPM)
.998L Hyundai	Gas only	Х		х	0 .998	37	3,600	52	2,700
.998L Hyundai	LP only	Х		X	0.998	36	3,600	51	2,700
*.998L Hyundai	Dual	X		X	0.998	37	3,600	52	2,700
		<u> </u>	L						