POWER SOLUTIONS INTERNATIONAL, INC.

EXECUTIVE ORDER U-L-011-0107 New Off-Road Large Spark-Ignition Engines Above 19 Kilowatts

Pursuant to the authority vested in California 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-19-095;

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	DISPLACEMENT (liters)	FUEL TYPE		
2022	NPSIB03.0GLP	3.0	Gasoline, LPG, Gasoline-LPG Dual Fuel, CNG-LPG Dual Fuel		
DURABILITY HOURS		IAL FEATURES & I CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE		
5000	Three-Way Catalytic Converter, Heated Oxygen Sensor (2), Sequential Multiport Fuel Injection, Gaseous Fuel Mixer		Forklift, Sweeper, Aerial Lift, Generator, Pump, Tractor/Tug		
ENGINE MODELS (rated power in kilowatt, kW)			See Attachment		

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).

	HC+NOx (g/kW-hr)	CO (g/kW-hr)		
EXHAUST STANDARD	0.8	20.6		
CERTIFICATION LEVEL	0.5	3.2		

The following is the evaporative hydrocarbon emission standard (13 CCR Section 2433(b)(4)) 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).

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 on this 10th day of June 2021.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Date: 03/10/2021

Engine Family: NPSIB03.0GLP

Model Summary

For CARB Use Only
Executive Order: U-L-011-0107
Attachment __1_of__1_

S13. Engine Model		Color (S15. Sales Codes (Check all appropriate)						
	S4. Engine Code	CA Only	49-State	50-State	\$16. Engine Displacement (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
3000P GAS	3000P GAS			Х	3.0	60	3000	141.5	2800
3000P D19-LPG	3000P D19-LPG			Х	3.0	60	3000	147.5	2000
3000P DF	3000P DF			Х	3.0	60	3000	141.5	2800
3000L GAS	3000L GAS			X	3.0	60	3000	142.4	2400
3000L D19-LPG	3000L D19-LPG			X	3.0	60	3000	147.5	2000
3000 D19-DF	3000 D19-DF			Х	3.0	60	3000	142.4	2400
3000ST-LPNG	3000ST-LPNG			Х	3.0	60	3000	147.5	2000
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