## POWER SOLUTIONS INTERNATIONAL, INC.

EXECUTIVE ORDER U-L-011-0125 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	FUEL TYPE  Gasoline, Liquefied Petroleum Gas (LPG), Compressed Natural Gas (CNG), Gasoline - Liquefied Petroleum Gas (LPG) Dual Fuel		
2024	RPSIB2.40GLP			
DURABILITY HOURS	EMISSION CONTROL SYSTEMS & SPECIAL FEATURES	EQUIPMENT APPLICATION		
5000	Three-Way Catalyst (TWC), Heated Oxygen Sensors (2) (HO2S), Sequential Multiport Fuel Injection (SFI),	Forklift, Sweeper, Tractor/Tug, Other		

Engines certified by this Executive Order are further described in 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	0.1	1.8

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		

<sup>\*</sup>not applicable

**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 20th day of July 2023.

Robin U. Lang, Chief

**Emissions Certification and Compliance Division** 

For CARB Use Only
Executive Order: U-L-011-0125
Attachment \_\_1\_\_of\_\_1\_\_

## 5/9/2023

Engine Family: RPSIB2.40GLP

Model Summary

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S13. Engine Model	S4. Engine Code	CA Only	49-State	50-State	S16. Engine Displacement (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (FT-LB)	S20. Peak Torque Speed (RPM)
2000LPG	2000LPG			X	2.0	39	2800	100.8	1800
2000GAS	2000GAS			X	2.0	40	2800	102.8	2400
2000DF	2000DF			X		40	2800	102.8	2400
2400GAS	2400GAS			X		50	2800	125.2	2400
2400GDR	2400GDR			X		37	2800	117.4	2800
2400LPG	2400LPG			X	2.4	47	2800	123.9	1600
2400DF	2400DF			X	2.4	50	2800	125.2	2400
2400CNG	2400CNG			X		53	2800	110.54	2400
24000110	24000140				2.7	33	2000	110.54	2400
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