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		
2024	RDZXB02.9116	Gasoline, Liquefied Petroleum Gas (LPG), Gasoline-Liquefied Petroleum Gas Dual Fuel		
DURABILITY HOURS	EMISSION CONTROL SYSTEMS & SPECIAL FEATURES	EQUIPMENT APPLICATION		
5000	Three-Way Catalytic Converter (TWC), Heated Oxygen Sensors (HO2S) (2), Sequential Fuel Injection (SFI), Gaseous Fuel Mixer (MIX)	Forklift, 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	1.3		

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	*	0.2		

\*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 4th day of August 2023.

John Shi for

Robin U. Lang, Chief Emissions Certification and Compliance Division

LSIE Exhaust Model Summary Template (rev. Aug 2021)

Date: \_\_06/30/2023\_\_\_\_\_ Engine Family: \_\_\_RDZXB02.9116\_\_\_\_\_

Model Summary

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

		S15. Sales Codes (Check all appropriate)							
S13. Engine Model	S14. 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)
G2.9L4	C5AI42DB			✓	2.925	42	2300	182	1600
G2.9L4	C5AI52PB			✓	2.925	52	2800	201	1600
G2.9L4	C5AI52AG			✓	2.925	52	2600	209	1600
G2.9L4	C5AI40EL			✓	2.925	40	2200	182	1600
G2.9L4	C5AI46EG			$\checkmark$	2.925	46	2200	209	1600
G2.9L4	C5AI50AB			$\checkmark$	2.925	50	2600	201	1600
G2.9L4	C5AI47AG			$\checkmark$	2.925	47	2600	187	1600
G2.9L4	C5AI45PL			✓	2.925	45	2800	182	1600
G2.9L4	C5AI44EL			✓	2.925	44	2200	202	1600
G2.9L4	C5AI47DB			✓	2.925	47	2300	201	1600
G2.9L4	C5AI41DL			✓	2.925	41	2300	182	1600
G2.9L4	C5AI54PG*			✓	2.925	54	2800	209	1600
G2.9L4	C5AI43DG			✓	2.925	43	2300	187	1600
G2.9L4	C5Al49AL			✓	2.925	49	2600	202	1600
G2.9L4	C5AI46DL			✓	2.925	46	2300	202	1600
G2.9L4	C5AI47PB			~	2.925	47	2800	182	1600
G2.9L4	C5AI48DG			✓	2.925	48	2300	209	1600
G2.9L4	C5AI50PL			✓	2.925	50	2800	202	1600
G2.9L4	C5AI49PG			✓	2.925	49	2800	187	1600
G2.9L4	C5AI42EG			✓ 	2.925	42	2200	187	1600
G2.9L4	C5AI44AL			✓ ✓	2.925	44	2600	182	1600
G2.9L4	C5AI45EB			✓ ✓	2.925	45	2200	201	1600
G2.9L4	C5AI45AB			<b>√</b>	2.925	45	2600	182	1600
G2.9L4	C5AI41EB			✓	2.925	41	2200	182	1600
L									

For CARB Use Only Executive Order: U-L-077-0008 Attachment \_\_1\_\_of\_\_1\_\_