

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-14-012;

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 NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE
2018	JNFXB02.548D	2.5	Dual Fuel, Gasoline or LPG
DURABILITY HOURS	SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT USAGE
5000	Multiport Fuel Injection (Gas and Dual Fuel), Throttle Body Injection (LPG), Three-Way Catalytic Converter, Heated Oxygen Sensor		Forklift
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).

(g/kW-hr)	HC+NOx	CO
Exhaust Standards	0.8	20.6
Certification Levels	0.5	5.6

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 at El Monte, California on this 2nd day of June 2017.

M. Hebert
 FOR Annette Hebert, Chief
 Emissions Compliance, Automotive Regulations and Science Division

ATTACHMENT Pg 1 of 2

RCZ 7/13/18

U-L-059-0014

Model Year: 2018
 Manufacturer Name: Global Component Technologies Corporation
 Engine Family: JNFXB02.548D
 OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION

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 Revised: 06/28/2018
 E.O.#: U-L-059-0014

S12. MODEL SUMMARY (For K25) (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

S13. Engine Model	S14. Engine Code	S15. Sales Codes (Check ALL appropriate)			S16. Eng. Displ. (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (Nm)	S20. Peak Torque Speed (RPM)
		Calif. Only	49-State	50-State					
K25 N-1				V	2.488	41.6	2700	158.1	1620
K25 N-2				V	2.488	41.7	2700	182.9	1620
K25 N-3	(Gasoline)			V	2.488	41.6	2700	158.1	1620
	(LPG)			V	2.488	40.9	2700	180.0	1620
K25 M-1				V	2.488	41.4	2700	158.0	1620
K25 M-2				V	2.488	41.6	2700	182.7	1620
K25 M-3	(Gasoline)			V	2.488	41.4	2700	158.0	1620
	(LPG)			V	2.488	40.9	2700	179.9	1620
K25 K-1				V	2.488	41.5	2700	158.2	1620
K25 K-2				V	2.488	41.7	2700	183.4	1620
K25 K-3	(Gasoline)			V	2.488	41.5	2700	158.2	1620
	(LPG)			V	2.488	41.0	2700	181.4	1620
*K25 T-1				V	2.488	41.7	2800	156.9	1680
K25 T-2				V	2.488	42.0	2800	182.9	1680
K25 T-3	(Gasoline)			V	2.488	41.4	2700	156.9	1620
	(LPG)			V	2.488	40.9	2700	180.0	1620
K25 D-1				V	2.488	44.9	2600	177.0	1600
K25 D-2				V	2.488	46.8	2600	190.0	1600
K25 D-3	(Gasoline)			V	2.488	44.9	2600	177.0	1600
	(LPG)			V	2.488	46.8	2600	191.0	1600
K25 H-2				V	2.488	45.8	2700	187.0	1600
K25 D-5				V	2.488	44.0	2600	180.2	1600

Model Year: 2018
 Manufacturer Name: Global Component Technologies Corporation
 Engine Family: JNFXB02.548D
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S12. MODEL SUMMARY (For GK25) (Use an asterisk (*) to identify worst-case engine model used for certification testing.)

S13. Engine Model	S14. Engine Code	S15. Sales Codes (Check ALL appropriate)			S16. Eng. Displ. (Liters)	S17. Rated Power (kW)	S18. Rated Speed (RPM)	S19. Peak Torque (Nm)	S20. Peak Torque Speed (RPM)
		Calif. Only	49-State	50-State					
GK25 N-1				V	2.488	41.6	2700	158.1	1620
GK25 N-2				V	2.488	41.7	2700	182.9	1620
GK25 N-3	(Gasoline)			V	2.488	41.6	2700	158.1	1620
	(LPG)			V	2.488	40.9	2700	180.0	1620
GK25 M-1				V	2.488	41.4	2700	158.0	1620
GK25 M-2				V	2.488	41.6	2700	182.7	1620
GK25 M-3	(Gasoline)			V	2.488	41.4	2700	158.0	1620
	(LPG)			V	2.488	40.9	2700	179.9	1620
GK25 K-1				V	2.488	41.5	2700	158.2	1620
GK25 K-2				V	2.488	41.7	2700	183.4	1620
GK25 K-3	(Gasoline)			V	2.488	41.5	2700	158.2	1620
	(LPG)			V	2.488	41.0	2700	181.4	1620
*GK25 T-1				V	2.488	41.7	2800	156.9	1680
GK25 T-2				V	2.488	42.0	2800	182.9	1680
GK25 T-3	(Gasoline)			V	2.488	41.4	2700	156.9	1620
	(LPG)			V	2.488	40.9	2700	180.0	1620
GK25 D-1				V	2.488	44.9	2600	177.0	1600
GK25 D-2				V	2.488	46.8	2600	190.0	1600
GK25 D-3	(Gasoline)			V	2.488	44.9	2600	177.0	1600
	(LPG)			V	2.488	46.8	2600	191.0	1600
GK25 H-2				V	2.488	45.8	2700	187.0	1600
GK25 D-5				V	2.488	44.0	2600	180.2	1600