

GLOBAL COMPONENT TECHNOLOGIES CORPORATION

EXECUTIVE ORDER U-L-059-0022 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 NAME	ENGINE DISPLACEMENT (liters)	FUEL TYPE		
2021	MNFXB02.147D	2.1	LPG		
DURABILIT'	Y SPEC	IAL FEATURES & CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE		
5000 Three-Wa		tle Body Injection, ay Catalytic Converter, ad Oxygen Sensor	Forklift		
ENG	INE MODELS ver in kilowatt, kW)	See Attachments			

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	со
Exhaust Standards	0.8	20.6
Certification Levels	0.5	2.1

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)		
Г	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 254 day of February 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

AMACHMENT B1082

\$12. MODEL \$ \$13.	S14.	r K∠1) (L	se an aste S15.	erisk (*) to	S16.	st-case engir S17.	S18.	for certification S19.	testing.) S20.
Engine Model	Engine Code	Sales Codes (Check ALL appropriate)		Eng. Displ.	Rated Power	Rated Speed	Peak Torque	Peak Torque	
		Calif. Only	49- State	50- State	(Liters)	(kW)	(RPM)	(Nm)	Speed (RPM)
K21 N-2				V	2.065	37.4	2700	145.4	1800
K21 M-2				٧	2.065	37.3	2700	145.1	1800
*K21 K-2				٧	2.065	38.8	2700	146.2	1800
K21 T-2				v	2.065	37.0	2700	144.9	1800
K21 D-2				V	2.065	37.2	2450	151.6	1600
K21 H-2				٧	2.065	40.0	2700	150.0	2000

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Model Year: 2021

Manufacturer Name: Global Component Technologies Corporation
Engine Family: MNFXB02.147D

OFF-ROAD LSI ENGINE SUPPLEMENTAL INFORMATION
S12. MODEL SUMMARY (For GK21) (Use an asterisk (*) to identify worst-ca

S13. S14.		S15.		S16.	S17.	S18.	S19.	\$20 .	
Engine Model	Engine Code	Sales Codes (Check ALL appropriate)			Eng. Displ.	Rated Power	Rated Speed	Peak Torque	Peak Torque Speed
		Calif. Only	49- State	50- State	(Liters)	(kW)	(RPM)	(Nm)	(RPM)
GK21 N-2				٧	2.065	37.4	2700	145.4	1800
GK21 M-2				V	2.065	37.3	2700	145.1	1800
*GK21 K-2				٧	2.065	38.8	2700	146.2	1800
GK21 T-2				٧	2.065	37.0	2700	144.9	1800
GK21 D-2				٧	2.065	37.2	2450	151.6	1600
GK21 H-2				٧	2.065	40.0	2700	150.0	2000
									