

DEUTZ AG

EXECUTIVE ORDER U-L-077-0001 New Off-Road Large Spark-Ignition Engines Above 19 Kilowatts

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-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		
2020	LDZXB02.2113	2.194	LPG		
DURABILIT HOURS		IAL FEATURES & CONTROL SYSTEMS	TYPICAL EQUIPMENT USAGE		
5000	Three-Wa	ay Catalytic Converter, gen Sensors (2)	Forklift		
ENG	SINE MODELS wer 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	со		
Exhaust Standards	0.8	20.6		
Certification Levels	0.2	1.2		

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 at El Monte, California on this

day of February 2020.

Allen Lyons, Chief

Emissions Certification and Compliance Division

Attachment (page 1 of 1)

	Thate I I I I	
Model Year: 2020	<u>C1</u> ,	Page:5
Manufacturer Name: Deutz AG		lssued:
Engine Family: LDZXB02.2113		Revised:
OFF-ROAD LSI ENGINE SUPPLEMENTAL INFOR	RMATION	E.O.#: <u>U-L-077-0001</u>

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

S13.	S14.	S15.		S16.	S17.	S18.	S19.	S20.	
Engine Model	Engine Code	Sales Codes (Check ALL appropriate)		Eng. Displ. (Liters)	Rated Power (kW)	Rated Speed (RPM)	Peak Torque (FT-LB)	Peak Torque Speed	
		Calif. Only	49- State	50- State	(=10.5)	()	,		(RPM)
G2.2L3	C5LI42A*				2.194	42.0	2800	160	1400
G2.2L3	C5LI40B				2.194	40.0	2600	160	1400
G2.2L3	C5LI40BL				2.194	39.6	2600	160	1400
G2.2L3	C5LI37A				2.194	37.0	2800	150	1400
G2.2L3	C5LI37B				2.194	37.0	2600	150	1400
G2.2L3	C5LI30A				2.194	30.0	2800	140	1400
G2.2L3	C5LI30B				2.194	30.0	2600	140	1400
G2.2L3	C5LI30EL				2.194	30.0	2200	131	1600
G2.2L3	C5LI26E				2.194	26.0	2200	140	1400
G2.2L3	C5LI26F				2.194	26.0	2100	140	1400
				 					
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