

Pursuant to the authority vested in California Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 of the Health and Safety Code; and

Pursuant to the authority vested in the undersigned by Sections 39515 and 39516 of the Health and Safety Code and Executive Order G-14-012;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2020	LYDXL3.32NDA	3.319	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Exhaust Gas Recirculation, Electronic Control Module, Periodic Trap Oxidizer, Oxidation Catalyst			Crane, Loader, Tractor, Dozer, Pump, Compressor, Excavator	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kW-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

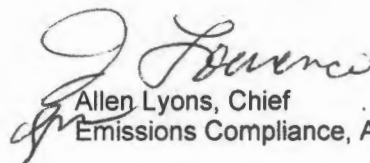
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	3.8	0.1	0.001	--	--	--

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (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 26th day of April 2019.



Allen Lyons, Chief
 Emissions Compliance, Automotive Regulations and Science-Division

ATTACHMENT 1 OF 1

Engine Model Summary Template

U-R-028-0898

4/17/2019

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
LYDXL3.32NDA	N/A	4TNMPC	73.7/2600	50.0	28.6	177.8/1690	57.4	21.4	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNMAC	72.0/2600	48.5	27.8	173.3/1690	55.0	20.5	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNNAC	69.3/2500	48.3	26.6	173.3/1625	55.0	19.7	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNPAC	66.9/2400	48.2	25.5	173.3/1560	55.0	18.9	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNQAC	64.5/2300	48.1	24.4	173.3/1495	55.0	18.1	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNSAC	61.9/2200	48.1	23.3	173.3/1430	55.0	17.3	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNVAC	59.4/2100	48.0	22.2	173.3/1365	55.0	16.5	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNWAC	56.9/2000	47.5	20.9	173.3/1300	55.0	15.8	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNNCC	58.9/2500	41.3	22.8	146.7/1625	45.4	16.3	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNNAC0T	69.3/2500	48.3	26.6	173.3/1625	55.0	19.7	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNQAC0T	64.5/2300	48.1	24.4	173.3/1495	55.0	18.1	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNMFC	72.0/2600	48.5	27.8	173.3/1690	55.0	20.5	ECU EM EGR DFI PTOX OC
LYDXL3.32NDA	N/A	4TNNFC	69.3/2500	48.3	26.6	173.3/1625	55.0	19.7	ECU EM EGR DFI PTOX OC
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LYDXL3.32NDA	N/A	4TNWFC	56.9/2000	47.5	20.9	173.3/1300	55.0	15.8	ECU EM EGR DFI PTOX OC