

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-19-095;

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	LYDXL3.05HDA	3.054	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Electronic Control Module, Exhaust Gas Recirculation, Turbocharger, Charge Air Cooler, Periodic Trap Oxidizer, Oxidation Catalyst, Selective Catalyst Reduction-Urea, Ammonia Slip Catalyst			Crane, Loaders, Tractor, Dozer, Pump, Compressor, Skid Steer Loader	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) for non-methane hydrocarbon (NMHC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), 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	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
56 ≤ kW < 130	Tier 4 Final	OPTIONAL STD	0.19	0.40	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.06	0.15	--	0.4	0.002	--	--	--

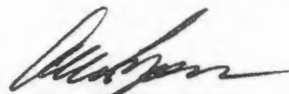
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for New 2011 and Later Tier 4 Off-Road Compression Ignition Engines, Part 1-D" adopted October 20, 2005 and last amended October 25, 2012.

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 20th day of November 2019.



Allen Lyons, Chief
 Emissions Certification and Compliance Division

EO# : U-R-028-0936

Engine Model Summary Template

Attachment: 1/1

11/14/2019

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
LYDXL3.05HDA	N/A	4QHNPC	120.9/2500	80.7	44.5	302.2/1700	93.1	34.9	EOU EM EGR DFI TC CAC PTOX OC -SCR- AMOX
LYDXL3.05HDA	N/A	4QHNAC	118.5/2500	78.6	43.3	290.5/1700	88.2	33.0	EOU EM EGR DFI TC CAC PTOX OC -SCR- AMOX
LYDXL3.05HDA	N/A	4QHNACJ	118.5/2500	78.6	43.3	290.5/1700	88.2	33.0	EOU EM EGR DFI TC CAC PTOX OC -SCR- AMOX
LYDXL3.05HDA	N/A	4QHWAC	93.6/2000	74.4	32.8	290.5/1475	88.3	28.7	EOU EM EGR DFI TC CAC PTOX OC -SCR- AMOX

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