

Pursuant to the authority vested in the 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)
2016	GYDXL1.50L3T	1.496	Diesel	5,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Turbocharger			Tractor, Excavator, Turf Care Equipment	

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	
19 ≤ kW < 37	Tier 4 Final / Alt 20% PM and NMHC+NOx	STD	N/A	N/A	4.7	5.5	0.03	20	15	50
		FEL	--	--	7.5	--	0.30	--	--	--
		CERT	--	--	6.3	1.7	0.24	5	2	7

**BE IT FURTHER RESOLVED:** That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

**BE IT FURTHER RESOLVED:** The listed engine family is conditionally certified pending submission and approval of manufacturer's tamper resistance method. The manufacturer has until March 31, 2016 to receive final approval from the Executive Officer. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification, in which case all engines covered under this conditional certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

**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 23<sup>rd</sup> day of December 2015.

*Michael J. Regan*  
for AN

Annette Hebert, Chief  
Emissions Compliance, Automotive Regulations and Science Division

SUPERSEDED

## Engine Model Summary Template

ATTACHMENT 1 of 1

U-R-028-0746  
12/22/15

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
GYDXL1.50L3T	N/A	3JTKP	41.2/2800	36.1	16.7	92.5/1900	39.9	12.5	EM DFI TC
GYDXL1.50L3T	N/A	3JTKA	40.6/2800	35.5	16.4	89.5/1900	37.9	11.9	EM DFI TC
GYDXL1.50L3T	N/A	3JTMA	37.4/2600	36.1	15.5	90.2/1800	39.0	11.6	EM DFI TC

SUPERSEDED