



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-02-003;

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)			
2012	CYDXL0.78V3N	0.784	Diesel	3,000			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION				
	Indirect Diesel Inje	ction	Crane, Loader, Tractor, Dozer, Pump, Compressor, Other Industrial Equipment				

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), 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	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
POWER CLASS			HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
8 ≤ kW < 19	Tier 4 Final	STD	N/A	N/A	7.5	6.6	0.40	20	15	50
		CERT	-		5.0	1.8	0.18	5	7	8

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

16 TH day of November 2011.

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Annette Hebert, Chief Mobile Source Operations Division

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U-R-028-0557 11/17/11

ATTACHMENT 1 OF 1

Ingine 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		9.Emission Control Device Per SAE J1930
'DXL0.78V3N	N/A	3TNM68-VHVM1	18.0/3000	15.5	7.7	36.8/2200	18.7	6.8	EM IFI
′DXL0.78V3N	N/A	3TNM68-A	19.4/3600	14.8	8.8	32.4/2500	15.7	6.5	EM IFI
′DXL0.78V3N	N/A	3TNM68-D	17.3/3000	15.2	7.5	34.5/2000	16.5	5.5	EM IFI
'DXL0.78V3N	N/A	3TN M68-B	18.8/3400	14.7	8.3	33.1/2400	15.6	. 6.2	EM IFI
′DXL0.78V3N	N/A	3TNM68-C	17.8/3200	14.6	7.7	33.1/2400	15.6	6.2	EM IFI
'DXL0.78V3N	N/A	3 TN M68-K	16.4/2800	15.0	6.9	35.3/2100	17.0	5.9	EM IFI
′DXL0.78V3N	N/A	3TNM68-M	15.0/2600	14.7	6.3	35 .3/1950	17.0	5.5	EM IFI
'DXL0.78V3N	N/A	3TNM68-P	13.9/2400	14.5	5. 8	35.3/1800	17.0	5.1	EM IFI
′DXL0.78V3N	N/A	3TNM68-S	12.7/2200	14.2	5.2	34.6/1650	16.7	4.6	EM IFI
′DXL0.78V3N	N/A	3TNM68-W	11.4/2000	14.2	4.7	34.6/1500	16.7	4.1	EM IFI