

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 system 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)
2017	HVPXL12.8CJA	12.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Smoke Puff Limiter, Selective Catalytic Reduction-Urea			Crane, Loader, Pump, Compressor	

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):

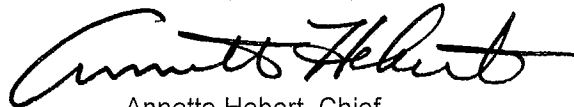
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.02	0.22	-	0.1	0.02	-	-	-

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 3 day of February 2017.



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

Attachment 1/1

Engine Model Summary Template

N-R-014-0159
1/25/2017

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
HVPXL12.8CJA	I	TAD1371 VE	382@1900	208	133	1965 Nm@1200	264	107	DDI,EM, ECM, CAC, TC, SPL, SCR-U, EGR
HVPXL12.8CJA	II	TAD1372 VE	422@1900	229	146	2175 Nm@1200	290	117	DDI,EM, ECM, CAC, TC, SPL, SCR-U, EGR
HVPXL12.8CJA	III	TAD1373 VE	463@1900	248	159	2380 Nm@1200	317	128	DDI,EM, ECM, CAC, TC, SPL, SCR-U, EGR
HVPXL12.8CJA	IV	TAD1374 VE	503@1900	268	171	2595 Nm@1200	348	141	DDI,EM, ECM, CAC, TC, SPL, SCR-U, EGR
HVPXL12.8CJA	V	TAD1375 VE	543@1900	290	185	2650 Nm@1200	353	143	DDI,EM, ECM, CAC, TC, SPL, SCR-U, EGR

SUPERSEDED