

AB VOLVO PENTA

EXECUTIVE ORDER U-R-014-0180 New Off-Road Compression-Ignition Engines Page 1 of 2

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) 8000		
2020	LVPXL12.8CJA	12.8	Diesel			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION		
Smoke Pu	c Direct Injection, Electro Charge Air Cooler, Turt ff Limiter, Selective Cata as Recirculation, Ammo	ocharger, llytic Reduction-Urea,	Crane, Loader, Pump, Compressor, Generator Set			

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, Califomia Code of Regulations, (13 CCR) Section 2423):

RATED POWER	EMISSION		EXHAUST (g/kW-hr)					OPACITY (%)		
CLASS	STANDARD CATEGORY		NMHC	NOx	NMHC+NOx	со	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
		FEL	N/A	N/A	N/A	N/A	0.03	N/A	N/A	N/A
		CERT	0.02	0.22	-	0.1	0.02	-	-	-

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: 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).



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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

14 day of November 2019.

Allen Lyons, Chief

AEmissions Certification and Compliance Division

ATTACHMENT 1 OF 1 Engine Model Summary Template Date 10/27/2019 EO # U-R-014-0180

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: m/stroke@peakHP (for diesel only)	5.Fuel Rate: (lbs/hr)@peakHF (for diesels only)		7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@pea torque	9 Emission Control
LVPXL12.8CJA	- 1	TAD1371 VE	382@1900	208	133	1965 Nm@12	00 264	107	DDI,EM,ECM, CAC, TC, SPL, SCR-U, EGR, AMOX
LVPXL12.8CJA	11	TAD1372 VE	422@1900	229	146	2175 Nm@12	00 290	117	DDI,EM,ECM, CAC, TC, SPL, SCR-U, EGR, AMOX
LVPXL12.8CJA	111	TAD1373 VE	463@1900	248	159	2380 Nm@12	00 317	128	DDI,EM,ECM, CAC, TC, SPL, SCR-U, EGR, AMOX
LVPXL12.8CJA	IV	TAD1374 VE	503@1900	268	171	2595 Nm@12	00 348	141 [DDI,EM,ECM, CAC, TC, SPL, SCR-U, EGR, AMOX
LVPXL12.8CJA	V	TAD1375 VE	543@1900	290	185	2650 Nm@12	00 353	143	DDI,EM,ECM, CAC, TC, SPL, SCR-U, EGR, AMOX