

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-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)
2019	KCPXL32.0HXG	32.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Oxidation Catalyst, Exhaust Gas Recirculation			Loader, Pump, Compressor, Off-road Truck, Shovel, Commercial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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):

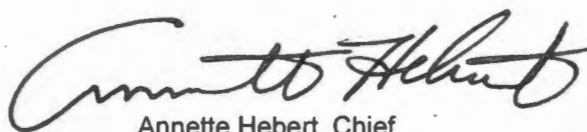
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
ELSE > 560 kW	Tier 4 Final	STD	0.19	3.5	N/A	3.5	0.04	N/A	N/A	N/A
		CERT	0.05	3.1	--	0.01	0.04	--	--	--

**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 21 day of September 2018.



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

ATTACHMENT 1 OF 1

**Engine Model Summary Template** U-R-001-0559

Re  
12/2/2019

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
KCPXL32.0HXG	Cert Test 1	C32	1198@1800	338	404	4311@1200	412	323	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	1	C32	1124@1800	318	385	4044@1200	381	308	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	2	C32	1124@1800	318	385	4044@1300	381	308	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	3	C32	1198@1800	338	404	4311@1200	412	323	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	4	C32	1198@1800	338	404	4311@1200	412	323	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	5	C32	1124@1800	318	385	4044@1200	381	308	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	6	C32	1124@1800	318	385	4044@1200	381	308	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	7	C32	1026@1800	290	351	4003@1250	386	316	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	8	C32	1026@1800	290	351	4003@1250	386	316	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	9	C32	1008@1800	287	348	3851@1200	365	295	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	10	C32	1008@1800	287	348	3851@1200	365	295	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	11	C32	1008@1800	287	348	3851@1200	365	295	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	12	C32	1008@1800	287	348	3851@1200	365	295	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	13	C32	999@1800	291	352	3919@1200	371	299	DFI,TC,ECM,CAC,EGR,OC
KCPXL32.0HXG	9A*	C32	1008@1800	287	348	3851@1200	365	295	DFI,TC,ECM,CAC,EGR,OC

\* New engine code