

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	KCEXL06.7AAQ	6.7	Diesel	8,000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Periodic Trap Oxidizer, Selective Catalytic Reduction-Urea, Diesel Oxidation Catalyst			Crane, Loader, Tractor, Dozer, Pump, Compressor	

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
130 ≤ kW ≤ 560	Tier 4 Final	STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.01	0.15	--	0.03	0.01	--	--	--

**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 4<sup>th</sup> day of April 2018.



Annette Hebert, Chief

Emissions Compliance, Automotive Regulations and Science Division

EO#: U-R-002-0683

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**Engine Model Summary Template**

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
KCEXL06.7AAQ	4833:FR95272	QSB6.7	316@2500	159.1	112.7	1014@1500	193.7	98.0	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4833:FR95876	QSB6.7	300@2500	156.5	105.5	950@1500	180.1	91.1	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4833:FR95877	QSB6.7	326@2200	159.0	112.6	1014@1500	193.6	98.0	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4833:FR95878	QSB6.7	310@2200	156.5	105.5	950@1500	180.1	91.1	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95273	QSB6.7	262@2500	155.8	94.6	996@1300	188.2	82.5	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95879	QSB6.7	260@2500	138.2	93.2	850@1500	157.3	79.6	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95880	QSB6.7	225@2500	109.2	81.0	700@1500	127.0	64.3	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95881	QSB6.7	200@2500	103.2	69.6	625@1500	113.2	57.3	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95882	QSB6.7	173@2500	96.3	65.0	625@1500	113.2	57.3	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95883	QSB6.7	280@2200	153.7	93.3	950@1500	178.6	90.4	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95884	QSB6.7	260@2200	153.7	93.3	996@1300	188.2	82.5	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95885	QSB6.7	225@2200	135.6	82.3	875@1300	162.6	71.3	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR96072	QSB6.7	225@2200	135.6	82.3	875@1300	162.6	71.3	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR96429	QSB6.7	225@2200	112.5	75.9	770@1500	140.7	71.2	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95886	QSB6.7	200@2200	107.2	68.7	730@1300	134.2	58.8	DDI ECM TC SCR CAC
KCEXL06.7AAQ	4834:FR95887	QSB6.7	280@2000	138.2	93.2	850@1500	157.3	79.6	DDI ECM TC SCR CAC

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**Engine Model Summary Template**

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
KCEXL06.7AAQ	4834:FR95888	QSB6.7	250@2000	135.6	82.3	850@1500	157.3	79.6	DDI ECM TC SCR CAC
KCEXL06.7AAQ	5235:FR95889	QSB6.7	173@2200	96.3	65.0	650@1300	119.1	52.2	DDI ECM TC SCR CAC
KCEXL06.7AAQ	5235:FR96074	QSB6.7	173@2200	96.3	65.0	650@1300	119.1	52.2	DDI ECM TC SCR CAC
KCEXL06.7AAQ	5235:FR96073	QSB6.7	173@2200	157.4	58.4	826@1100	156.4	58.0	DDI ECM TC SCR CAC
KCEXL06.7AAQ	5235:FR95890	QSB6.7	155@2200	89.4	54.3	550@1300	101.3	44.4	DDI ECM TC SCR CAC
KCEXL06.7AAQ	5235:FR95891	QSB6.7	232@2000	113.5	76.6	700@1500	127.0	64.3	DDI ECM TC SCR CAC
KCEXL06.7AAQ	5235:FR95892	QSB6.7	195@2000	96.3	65.0	625@1500	113.2	57.3	DDI ECM TC SCR CAC
KCEXL06.7AAQ	5235:FR95893	QSB6.7	225@1800	127.1	72.9	875@1300	162.6	71.3	DDI ECM TC SCR CAC

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