

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 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)
2014	ECEXL06.7AAH	3.3, 4.5, 6.7	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst			Crane, Loader, Tractor, Dozer, Pump, Compressor, and Generator Set	

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
56 ≤ kW < 130	Interim Tier 4 /ALT NOx	STD	0.19	3.4	N/A	5.0	0.02	N/A	N/A	N/A
		CERT	0.05	3.2	--	0.04	0.02	--	--	--

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005 and last amended October 25, 2012.

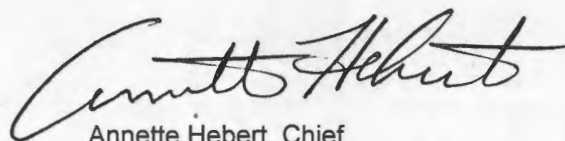
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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.

This Executive Order hereby supersedes Executive Order U-R-002-0600 dated May 23, 2013.

Executed at El Monte, California on this 22 day of December 2014.



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

U-R-002-0600-2

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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
ECEXL06.7AAH	3098:FR92547	QSB6.7	173@2500	79	67	590@1500	115	58	pac DDI,ECM,TC,CAC,DP
ECEXL06.7AAH	3098:FR92548	QSB6.7	160@2500	79	66	540@1500	105	53	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92558	QSB6.7	173@2200	82	61	590@1500	114	58	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92556	QSB6.7	165@2200	81	60	540@1500	102	52	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92560	QSB6.7	155@2200	78	58	496@1500	94	47	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92575	QSB6.7	173@2100	83	59	590@1500	114	58	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92720	QSB6.7	168@2100	85	60	540@1500	107	54	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92577	QSB6.7	158@2100	81	57	590@1500	114	58	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92572	QSB6.7	146@2100	76	54	540@1500	107	54	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR92568	QSB6.7	170@2000	89	60	485@1500	94	48	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR94109	QSB6.7	173@2300	76	60	590@1500	108	55	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR94110	QSB6.7	163@2300	73	60	540@1500	99	51	DDI,ECM,TC,
ECEXL06.7AAH	3098:FR94373	QSB6.7	173@2200	82	61	590@1500	114	58	DDI,ECM,TC,
									EGR
ECEXL06.7AAH	FR93415	QSB3.3	120@2400	86	45	306@1600	98	34	ECM,EM,TC,CAC,DP,DP
ECEXL06.7AAH	FR93297	QSB3.3	100@2600	71	40	306@1600	98	34	EM,TC,CAC,
ECEXL06.7AAH	FR93417	QSB3.3	85@2600	60	34	277@1600	87	30	EM,TC,CAC,
ECEXL06.7AAH	FR93414	QSB3.3	110@2400	80	42	306@1600	98	34	EM,TC,CAC,
ECEXL06.7AAH	FR93413	QSB3.3	110@2200	88	42	306@1600	98	34	EM,TC,CAC,
ECEXL06.7AAH	FR93395	QSB3.3	100@2200	79	38	306@1600	98	34	EM,TC,CAC,
ECEXL06.7AAH	FR93416	QSB3.3	85@2200	68	33	277@1600	87	30	EM,TC,CAC,
ECEXL06.7AAH	3670:FR93376	QSB4.5	163@2500	102	86	466@1500	130	66	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93377	QSB4.5	130@2500	86	73	457@1500	129	65	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93457	QSB4.5	115@2500	75	63	360@1500	102	52	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93458	QSB4.5	160@2300	111	86	460@1500	129	65	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93459	QSB4.5	130@2300	92	72	377@1500	107	54	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93460	QSB4.5	160@2200	114	84	460@1500	129	65	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93461	QSB4.5	130@2200	96	71	457@1500	129	65	DDI,ECM,TC,

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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
ECEXL06.7AAH	3670:FR93462	QSB4.5	121@2200	89	66	347@1500	102	51	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93463	QSB4.5	110@2200	82	61	360@1500	105	53	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93464	QSB4.5	155@2000	115	77	460@1500	129	65	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93465	QSB4.5	140@2000	104	70	457@1500	129	65	DDI,ECM,TC,
ECEXL06.7AAH	3962:FR93968	QSB5-G9	148@1500	162	52.8	N/A	N/A	N/A	DDI,ECM,TC,
ECEXL06.7AAH	3962:FR93968	QSB5-G9	173@1800	151	61.1	N/A	N/A	N/A	DDI,ECM,TC,
ECEXL06.7AAH	3962:FR93967	QSB5-G8	119@1500	128	42.8	N/A	N/A	N/A	DDI,ECM,TC,
ECEXL06.7AAH	3962:FR93967	QSB5-G8	140@1800	127	51.3	N/A	N/A	N/A	DDI,ECM,TC,
ECEXL06.7AAH	3962:FR93966	QSB5-G7	92@1500	108	36.7	N/A	N/A	N/A	DDI,ECM,TC,
ECEXL06.7AAH	3962:FR93966	QSB5-G7	110@1800	99	39.9	N/A	N/A	N/A	DDI,ECM,TC,
ECEXL06.7AAH	3670:FR93376	SAA4D107E-2	163@2500	104	58	466@1500	132	44	DDI,ECM,TC,
ECEXL06.7AAH	3590:FR94019	SAA4D107E-2	148@2000	116	51	458@1600	130	46	DDI,ECM,TC,
ECEXL06.7AAH	3590:FR93361	SAA4D107E-2	121@2100	95	44	357@1500	106	35	DDI,ECM,TC,
ECEXL06.7AAH	3590:FR94018	SAA4D107E-2	128@2000	102	45	432@1400	130	40	DDI,ECM,TC,
ECEXL06.7AAH	3096:FR92567	SAA6D107E-2	170@2100	84	60	566@1400	110	52	DDI,ECM,TC,
ECEXL06.7AAH	3096:FR92571	SAA6D107E-2	165@2000	84	57	479@1500	92	46	DDI,ECM,TC,
ECEXL06.7AAH	3096:FR92571	SAA6D107E-2	165@2000	84	57	479@1500	92	46	DDI,ECM,TC,
ECEXL06.7AAH	3096:FR92573	SAA6D107E-2	154@2000	82	55	509@1300	103	45	DDI,ECM,TC,
ECEXL06.7AAH	3096:FR92576	SAA6D107E-2	170@2200	79	58	566@1400	106	50	DDI,ECM,TC,

DDI, TC, LCC, ECM, EGR