

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)
2018	JSIDL07.4G6B	7.4, 6.6	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Smoke Puff Limiter, Diesel Oxidation Catalyst, Ammonia Oxidation Catalyst, Selective Catalyst Reduction-Urea			Tractor	

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
75 ≤ kW ≤ 560	Tier 4 Final	OPTIONAL STD	0.19	0.40	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.03	0.29	--	0.1	0.01	--	--	--


**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 Emissions Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-D" adopted October 20, 2005

**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 8<sup>th</sup> day of December 2017.

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

U-R-050-0068

ATTACHMENT 1 OF 2

**Engine Model Summary Template**

DATE: 11/17/2017

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
JSIDL07.4G6B	* TESTED	74AWF.923	300@2100	153	107.1	961@1500	177	88.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.987	189@2100	93	65.1	646@1500	117	58.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.988	189@2100	93	65.1	646@1500	117	58.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.991	212@2100	101	70.7	718@1500	127	63.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.992	212@2100	101	70.7	718@1500	127	63.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.997	256@2100	120	84.0	881@1500	162	81.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.998	256@2100	120	84.0	881@1500	162	81.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.1000	225@2100	116	81.2	766@1500	142	71.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1030	280@2100	135	94.5	923@1500	168	84.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.924	218@2100	111	77.7	781@1500	143	71.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1017	257@2100	131	91.7	815@1500	150	75.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.1027	158@2100	83	58.1	632@1500	120	57.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.1028	189@2100	108	75.6	726@1500	139	69.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.1029	218@2100	125	87.5	769@1500	147	73.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1035	205@2100	101	70.7	725@1500	130	73.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1036	224@2100	107	74.9	792@1500	138	69.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.985	178@2100	89	62.3	608@1500	108	54.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.986	178@2100	89	62.3	608@1500	108	54.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.989	200@2100	101	70.7	711@1500	126	63.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.990	200@2100	101	70.7	711@1500	126	63.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.993	226@2100	111	77.7	807@1500	146	73.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.994	226@2100	111	77.7	807@1500	146	73.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.995	243@2100	121	84.7	861@1500	155	77.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.996	243@2100	121	84.7	861@1500	155	77.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1023	296@2100	145	101.5	923@1500	170	85.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1024	236@2100	96	67.2	796@1500	154	77.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.982	166@2100	83	58.1	573@1500	104	52.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX

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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
JSIDL07.4G6B		66AWF.983	166@2100	83	58.1	573@1500	104	52.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.984	166@2100	83	58.1	573@1500	104	52.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.1152	177@2100	87	60.9	669@1500	118	59.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.1153	201@2100	103	72.1	738@1500	135	67.5	ECM,DDI,TC,CAC,SPL,SCRG,DOC,AMOX
JSIDL07.4G6B		66AWF.1084	188@2100	92	64.4	654@1500	120	60.0	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		66AWF.1085	208@2100	102	71.4	731@1500	133	66.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1086	228@2100	94	65.8	846@1500	157	78.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1087	261@2100	129	90.3	923@1500	171	85.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		49AWF.1236	189@2100	98	45.7	646@1500	138	45.9	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		49AWF.1237	189@2100	98	45.7	646@1500	138	45.9	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		49AWF.1178	166@2100	86	40.1	573@1500	116	38.6	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		49AWF.1179	166@2100	86	40.1	573@1500	116	38.6	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		49AWF.1180	166@2100	86	40.1	573@1500	116	38.6	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		49AWF.1181	180@2100	93	43.3	608@1500	122	40.6	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		49AWF.1182	180@2100	93	43.3	608@1500	122	40.6	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1204	228@2100	131	91.7	594@1500	147	73.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1205	274@2100	153	107.1	717@1500	170	85	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1245	208@2100	121	84.7	542@1500	134	67	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1343	266@2100	129	90.3	853@1500	148.5	74.3	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX
JSIDL07.4G6B		74AWF.1344	235@2100	113	79.1	796@1400	139	69.5	ECM,DDI,TC,CAC,SPL,SCRC,DOC,AMOX