

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-02-003;

**IT IS ORDERED AND RESOLVED:** That the following compression-ignition engine and emission control system 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)
2013	DSIDL07.4G6A	7.4, 6.6, 4.9	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Smoke Puff Limiter, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst, Oxidation Catalyst			Tractor, Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), 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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
75 ≤ KW ≤ 560	Interim Tier 4 ALT NOx	OPTIONAL STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.02	1.9	--	0.1	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.

**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 14<sup>th</sup> day November 2012.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

ATTACHMENT 1 OF 2

## Engine Model Summary Template

U-R-050-0037

8/28/2012

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
DSIDL07.4G6A		74AWI.663	279@2100	142	99.4	950@1500	168	84.0 <i>Amox</i>	ECM,DDI,TC,CAC,SPL,SCRC, De
DSIDL07.4G6A		74AWI.689	226@2100	115	80.5	800@1500	143	71.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.690	218@2100	112	78.4	792@1500	141	70.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.691	244@2100	124	86.8	857@1500	153	76.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.692	248@2100	125	87.5	881@1500	156	78.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.668	210@2100	104	72.8	769@1500	144	72.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.670	240@2100	122	85.4	846@1500	159	79.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.700	220@2100	112	78.4	769@1500	137	68.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		49AWI.701	138@2100	106	49.5	477@1500	128	42.7	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		49AWI.702	197@2100	151	70.5	600@1500	158	52.7	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.693	165@2100	85	59.5	573@1500	105	52.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.694	178@2100	91	63.7	608@1500	110	55.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.695	165@2100	85	59.5	569@1500	105	52.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.696	189@2100	96.5	67.6	646@1500	117	58.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.697	200@2100	103.5	72.5	711@1500	129	64.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.698	212@2100	111	77.7	754@1500	136.5	68.3	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.699	205@2100	105	73.5	725@1500	131	65.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.769	178@2100	75	52.5	638@1500	96	48.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.770	190@2100	80	56.0	677@1500	101	50.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.768	188@2100	95	66.5	654@1500	119	59.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.767	174@2100	87	60.9	631@1500	115	57.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.775	205@2100	105	73.5	725@1500	131	65.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.749	218@2100	111	77.7	781@1500	141	70.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.750	257@2100	132	92.4	815@1500	148	74.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		66AWI.841	188@2100	95	66.5	731@1500	134	67.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL07.4G6A		74AWI.867	201@2100	104	72.8	769@1500	141	70.5	ECM,DDI,TC,CAC,SPL,SCRC

**Engine Model Summary Template**

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8/28/2012

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DSIDL07.4G6A		66AWI.754	208@2100	103	72.1	723@1500	130	65.0 Doc	ECM,DDI,TC,CAC,SPL,SCRC,Amc