

California Environmental Protection Agency Air Resources Board	AGCO SISU DIESEL INC.	EXECUTIVE ORDER U-R-050-0036 New Off-Road Compression-Ignition Engines
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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	DSIDL08.4H6B	8.4, 9.8	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module, Smoke Puff Limiter, Oxidation Catalyst, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst			Crane, 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	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.04	1.7	--	0.2	0.02	--	--	--

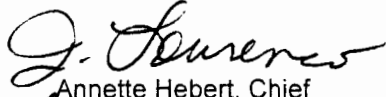
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road 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 22nd day of October 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

U-R-050-0036

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
DSIDL08.4H6B		84AWI.648	335@2100	162	113	1215@1500	221	128.9	ECM,DDI,TC,CAC,SPL,SCRC,Amox
DSIDL08.4H6B		84AWI.655	252@2100	122	85.5	911@1500	159.5	80	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.656	276@2100	134	94	1000@1500	175	87.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.657	300@2100	146	102	1077@1500	188	94	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.658	330@2100	160	112	1177@1500	206	103	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.659	351@2100	170	119	1184@1500	207	103.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		98ATI.660	502@2100	218	178.0	1412@1800	220	154.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		98ATI.661	502@2100	218	178.0	1412@1800	220	154.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		98ATI.662	426@2100	191	156.0	1476@1500	221	128.9	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		98ATI.706	426@2100	182	148.6	1230@1800	199	139.3	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		98ATI.707	460@2100	203	165.8	1400@1800	220	154.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.673	256@2100	128	89.6	930@1500	167	83.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.674	280@2100	140	98.0	1023@1500	185	92.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.677	364@2100	189	132.3	1215@1500	215	107.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.678	343@2100	166	116.2	1154@1600	204	108.8	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.679	370@2100	179	125.3	1154@1600	204	108.8	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.680	370@2100	179	125.3	1154@1600	204	108.8	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.687	343@2100	166	116.2	1154@1600	204	108.8	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.688	370@2100	179	125.3	1154@1600	204	108.8	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.708	330@2100	157	109.0	1150@1500	203	101.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.748	343@2100	166	116.2	1061@1800	190	95.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.715	280@2100	138	96.6	1000@1500	179	89.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.716	311@2100	159	111.3	1123@1500	205	102.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.717	339@2100	167	116.9	1200@1500	209	104.5	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.776	306@2100	150	105.0	1116@1500	196	98.0	ECM,DDI,TC,CAC,SPL,SCRC
DSIDL08.4H6B		84AWI.777	327@2100	160	112.0	1184@1500	210	105.0	ECM,DDI,TC,CAC,SPL,SCRC

Engine Model Summary Template

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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
DSIDL08.4H6B		84AWI.778	350@2100	172	120.4	1184@1500	210	105.0	xx, ECM,DDI,TC,CAC,SPL,SCRC,DP,NOx