California Environmental Protection Agency AIR RESOURCES BOARD	AGCO SISU POWER INC.	EXECUTIVE ORDER U-R-050-0028 New Off-Road Compression-Ignition Engines

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)
2011	BSIDL07.4G4E	7.4, 6.6, 4.9, 4.4	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Engine Control Module and Smoke Puff Limiter	Tractor and Other 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 < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.8	0.7	0.25	14	3	49

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 24th day of February 2011.

J. Lourenco

Annette Hebert, Chief
Mobile Source Operations Division

U-R-050-0028
2/24/11

Engine Model Summary Template

ATTACHMENT

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
BSIDL07.4G4E		74.384 CTA	173@2200	93	68.2	788@1500	162	81.0	ECM, DDI, TC, CAC, SPL
BSIDL07.4G4E		49.388 CWA	152@2200	120	58.7	477@1500	137	45.7	ECM, DDI, TC,
BSIDL07.4G4E		44.389 CWA	135@2200	109	53.3	431@1500	126	42.0	ECM, DDI, TC,
BSIDL07.4G4E		44.406 CTA	121@2500	84	46.7	346@1500	105	35.0	ECM, DDI, TC,
BSIDL07.4G4E		44.465 CWA	125@2200	99	48.4	454@1500	134	44.7	ECM, DDI, TC,
BSIDL07.4G4E		44.464 CTA	113@2200	90	44.0	385@1500	114	38.0	ECM, DDI, TC,
BSIDL07.4G4E		44.437 CWA	121@2100	99	46.2	461@1500	136	45.3	ECM, DDI, TC,
BSIDL07.4G4E		49.417 CWA	147@2000	126	56.0	538@1500	161	53.7	ECM, DDI, TC,
BSIDL07.4G4E		49.429 CWA	161@2200	129	63.1	538@1500	158	52.7	ECM, DDI, TC,
BSIDL07.4G4E		49.466 CWA	161@2200	129	63.1	538@1500	158	52.7	ECM, DDI, TC,
BSIDL07.4G4E		66.438 CTA	168@2200	94	68.9	538@1500	105	52.5	ECM, DDI, TC,
BSIDL07.4G4E		44.440 CWA	134@2200	108	52.8	461@1500	136	45.3	ECM, DDI, TC,
BSIDL07.4G4E		44.474 CTA	147@2200	113	55.2	408@1650	127	42.3	ECM, DDI, TC,
BSIDL07.4G4E		66.473 CTA	168@2200	90	66.0	538@1500	107	53.5	ECM, DDI, TC,
BSIDL07.4G4E		49.478 CWA	161@2200	129	63.1	538@1500	158	52.7	ECM, DDI, TC,
BSIDL07.4G4E		44.481 CWA	145@2200	116	56.7	446@1500	128	42.7	ECM, DDI, TC,
BSIDL07.4G4E		49.489 CWA	161@2200	129	63.1	538@1500	158	52.7	ECM, DDI, TC,
BSIDL07.4G4E		44.508 CWA	121@2100	99	46.2	461@1500	136	45.3	ECM, DDI, TC,
BSIDL07.4G4E		44.571 CTA	113@2200	90	44.0	385@1500	114	38.0	ECM, DDI, TC,
BSIDL07.4G4E		44.584 CWA	145@2200	116	56.7	446@1500	128	42.7	ECM, DDI, TC,
BSIDL07.4G4E		44.577 CWA	134@2200	108	52.8	461@1500	136	45.3	ECM, DDI, TC,
BSIDL07.4G4E		66.606 CTA	158@2100	80	60.9	579@1500	113	56.5	ECM, DDI, TC,
BSIDL07.4G4E		49.524 CWA	161@2200	129	63.1	538@1500	158	52.7	ECM, DDI, TC,
BSIDL07.4G4E		44.567 CWA	135@2200	114	55.7	461@1500	140	46.7	ECM, DDI, TC,
BSIDL07.4G4E		49.603 CWA	161@2200	129	63.1	538@1500	158	52.7	ECM, DDI, TC,
BSIDL07.4G4E		66.617 CTA	173@2100	95	66.5	631@1500	123	61.5	ECM, DDI, TC,
BSIDL07.4G4E		66.621 CTA	173@2200	92	67.5	604@1500	119	59.5	ECM, DDI, TC,