California Environmental Protection Agency AIR RESOURCES BOARD	AGCO SISU POWER INC.	EXECUTIVE ORDER U-R-050-0021 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)
2010	ASIDL08.4H5B	8.4	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel 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
130 ≤ KW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.8	0.6	0.14	12	2	43

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 day of June 2010.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Template

U-R-050-0021
6/01/2010

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
ASIDL08.4H5B		84.381 CTA-4V	308@2200	167	122.5	1154@1500	228	114.0	DDI, ECM, SPL, TC, CAC
ASIDL08.4H5B		84.397 CTA-4V	330@2100	180	126.0	896@1575	183	96.1	SPL
ASIDL08.4H5B		84.396 CTA-4V	379@2100	202	141.4	896@1575	183	96.1	SPL
ASIDL08.4H5B		84.395 CTA-4V	410@2100	217	151.9	896@1575	183	96.1	SPL
ASIDL08.4H5B		84.385 CTA-4V	289@2200	149	109.3	984@1500	193	96.5	SPL
ASIDL08.4H5B		84.399 CTA-4V	264@2200	137	100.5	919@1500	180	90.0	SPL
ASIDL08.4H5B		84.404 CTA-4V	269@2000	152	101.3	1000@1500	194	97.0	SPL
ASIDL08.4H5B		84.426 CTA-4V	379@2100	202	141.4	896@1575	183	96.1	SPL
ASIDL08.4H5B		84.427 CTA-4V	330@2100	180	126.0	896@1575	183	96.1	SPL
ASIDL08.4H5B		84.445 CTA-4V	264@2200	136	99.7	984@1500	193	96.5	SPL
ASIDL08.4H5B		84.446 CTA-4V	289@2200	150	110.0	1077@1500	213	106.5	SPL
ASIDL08.4H5B		84.460 CTA-4V	399@2100	220	154.0	923@1575	181	95.0	SPL
ASIDL08.4H5B		84.459 CTA-4V	350@2100	190	133.0	923@1575	181	95.0	SPL
ASIDL08.4H5B		84.419 CTA-4V	295@2200	167	122.5	1000@1500	194	97.0	SPL
ASIDL08.4H5B		84.461 CTA-4V	289@2200	150	110.0	1077@1500	213	106.5	SPL
ASIDL08.4H5B		84.456 CTA-4V	289@2200	149	109.3	984@1500	193	96.5	SPL
ASIDL08.4H5B		84.449 CTA-4V	330@2200	173	126.9	1147@1500	224	112.0	SPL
ASIDL08.4H5B		84.531 CTA-4V	251@2200	135	99.0	911@1500	188	94.0	SPL
ASIDL08.4H5B		84.532 CTA-4V	275@2200	146	107.1	996@1500	197	98.5	SPL
ASIDL08.4H5B		84.533 CTA-4V	300@2200	158	115.9	1077@1500	213	106.5	SPL
ASIDL08.4H5B		84.495 CTA-4V	379@2100	202	141.4	896@1575	183	96.1	SPL
ASIDL08.4H5B		84.587 CTA-4V	289@2200	150	110.0	1077@1500	213	106.5	SPL
ASIDL08.4H5B		84.588 CTA-4V	300@2200	158	115.9	1077@1500	213	106.5	SPL
ASIDL08.4H5B		84.592 CTA-4V	330@2200	173	126.9	1147@1500	224	112.0	SPL