California Environmental Protection Agency AIR RESOURCES BOARD	AGCO SISU DIESEL INC.	EXECUTIVE ORDER U-R-050-0019 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	ASIDL08.4H6A	8.4 & 9.8	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module and Smoke Puff Limiter, Selective Catalytic Reduction	Tractor

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
225 ≤ KW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.5	0.7	0.12	13	3	24

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 5 day of May 2010.

Annette Hebert, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Template

U-R-050-0019

4/20/2010

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
ASIDL08.4H6A		84.538 CTA-4V	375@2200	181	132.7	1230@1500	224	112.0	DDI, IC, SPL, CAC, SCR, ECM
ASIDL08.4H6A		84.583 CTA-4V	348@2200	165	121.0	1184@1500	216	108.0	SPL
ASIDL08.4H6A		84.450 CTA-4V	363@2200	171	125.4	1203@1500	216	108.0	SPL
ASIDL08.4H6A		84.534 CTA-4V	251@2200	120	88.0	911@1500	161	80.5	SPL
ASIDL08.4H6A		84.535 CTA-4V	272@2200	131	96.1	996@1500	175	87.5	SPL
ASIDL08.4H6A		84.536 CTA-4V	300@2200	142	104.1	1077@1500	190	90.5	SPL
ASIDL08.4H6A		84.537 CTA-4V	330@2200	155	113.7	1177@1500	209	104.5	SPL
ASIDL08.4H6A		84.608 CTA-4V	348@2200	165	121.0	1169@1500	214	107.0	SPL
ASIDL08.4H6A		98.613 CTA-4V	402@1800	202	141.4	1269@1350	195	102.4	SPL
ASIDL08.4H6A		98.620 CTA-4V	460@2100	197	160.9	1092@1575	173	106.0	SPL