California Environmental Protection Agency AIR RESOURCES BOARD	SISU DIESEL INC.	EXECUTIVE ORDER U-R-050-0010 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)
2006	6SIDL07.4G4D	7.4	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

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 < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.8	0.8	0.17	10	3	35

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 21ST day of February 2006.

Allen Lyons, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Summary Form

Manufacturer: **Sisu Diesel Inc.**

Engine category: **Nonroad CI**

EPA Engine Family: **6SIDL07.4G4D**

Mfr Family Name: **74 CTA**

Process Code: **New Submission**

U-R-050-0010

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
	74.383 CTA	235@2200	128	93.9	807@1500	164	82.0	DOT, TAA, SPL, LAC
74.500	74.400 CTA	240@2200	129	94.6	769@1500	148	74.0	SPL
74.507	74.401 CTA	181@2200	98	71.9	546@1500	110	55.0	SPL
74.501	74.410 CTA	201@2200	110	80.7	769@1500	153	76.5	SPL
74.511	74.420 CTA	240@2200	129	94.6	769@1500	148	74.0	SPL
74.508	74.421 CTA	222@2200	122	89.5	731@1500	143	71.5	SPL
74.510	74.422 CTA	222@2200	122	89.5	731@1500	143	71.5	SPL
66.508	66.405 CTA	192@2200	100	73.3	692@1500	132	66.0	SPL
66.503	66.409 CTA	188@2200	100	73.3	615@1500	118	59.0	SPL
66.510	66.418 CTA	192@2200	100	73.3	692@1500	132	66.0	SPL