 AIR RESOURCES BOARD	SISU DIESEL INC.	EXECUTIVE ORDER U-R-050-0012 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	6SIDL07.4G5B	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 2	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.9	0.6	0.13	10	2	32

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 14th day of March 2006.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Template

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1.Engine Code 2.Engine Model 3.BHP@RPM mm/stroke @ peak HP (SAE Gross) 4.Fuel Rate: (lbs/hr) @ 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 torqueDevice Per SAE J1930 9.Emission Control

Engine Family	1.Engine Code	2.Engine Model	3.BHP@RPM mm/stroke @ peak HP (SAE Gross)	4.Fuel Rate: (lbs/hr) @ 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 torqueDevice Per SAE J1930	9.Emission Control
6SIDL07.4G5B	74.382	CTA-4V	235@2200	128	93.9	885@1500	194	97.0	DP1, SPL, ECM
6SIDL07.4G5B	74.502	74.391 CTA-4V	240@2200	124	90.9	790@1500	161	80.5	SPL
6SIDL07.4G5B	74.503	74.392 CTA-4V	224@2200	115	84.3	715@1500	144	72.0	SPL
6SIDL07.4G5B	74.504	74.394 CTA-4V	224@2200	115	84.3	715@1500	144	72.0	SPL
6SIDL07.4G5B	74.505	74.398 CTA-4V	214@2200	113	82.9	684@1500	141	70.5	SPL
6SIDL07.4G5B	66.500	66.386 CTA-4V	205@2200	108	79.2	612@1500	120	60.0	SPL
6SIDL07.4G5B	66.501	66.387 CTA-4V	182@2200	95	69.7	553@1500	111	55.5	SPL
6SIDL07.4G5B	66.509	66.407 CTA-4V	177@2200	93	68.2	490@1500	104	52.0	SPL
6SIDL07.4G5B	74.514	74.423 CTA-4V	177@2200	95	69.7	515@1500	104	52.0	SPL
6SIDL07.4G5B	74.513	74.424 CTA-4V	182@2200	97	71.1	577@1500	114	57.0	SPL
6SIDL07.4G5B	74.512	74.425 CTA-4V	205@2200	109	79.9	638@1500	121	60.5	SPL
6SIDL07.4G5B	66.505	66.393 CTA-4V	196@2200	101	74.1	695@1500	131	65.5	SPL
6SIDL07.4G5B	66.506	66.402 CTA-4V	185@2200	95	69.7	677@1500	126	63.0	SPL
6SIDL07.4G5B	66.513	66.431 CTA-4V	178@2200	96	70.4	546@1500	110	55.0	SPL