## **CUMMINS INC.**

EXECUTIVE ORDER U-R-002-0468 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.

ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)		
9CEXL03.3ACE	3.3	Diesel	8000		
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Indirect Diesel Injection		Crane, Loader, Tractor, Dozer, Pump, Compressor, Generator			
	9CEXL03.3ACE	9CEXL03.3ACE 3.3  EATURES & EMISSION CONTROL SYSTEMS	9CEXL03.3ACE 3.3 Diesel  EATURES & EMISSION CONTROL SYSTEMS TYPICAL 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	EMISSION				EXHAUST (g/kw-l	nr)		OI	PACITY (%	<b>(</b> )
POWER CLASS	STANDARD CATEGORY		HC	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
37 ≤ kW < 56	Tier 4 Interim	STD	N/A	N/A	4.7	5.0	0.30	20	15	50
		CERT			4.1	2.0	0.20	2	4	6

**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 \_\_\_\_\_ 27 \( \frac{1}{2} \) day of November 2008.

Annette Hebert, Chief

Mobile Source Operations Division

## A74/12ほこれ ほうしょう (こら) Engine Model Summary Template

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6. Torque @ RPM (SEA Gross)	158@1600	155@1600	eder et en	
5.Fuel Rate: lbs/hr) @ peak HP (for diesels only)	27	25		COLUMN TO THE COLUMN T
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM (for diesel only) (for diesels only) (SEA Gross)	47	51	HERCORPRIENCOS HERPEROSCOSOS CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR DE CONTRACTOR D	од водам и пере и по уделен од чта једога постер од до напоческого воде достого велото селото коједо селото в
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