

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)
2008	8CEXL015.AAE	15.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Loader, Tractor and Compressor	

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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
		FEL	N/A	N/A	N/A	N/A	0.13	N/A	N/A	N/A
		CERT	--	--	3.6	0.7	0.09	16	2	23

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

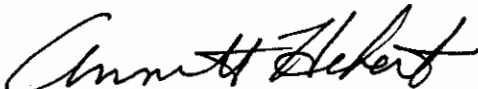
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

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.

This Executive Order hereby cancels and replaces Executive Order U-R-002-0422 dated December 6, 2007.

Executed at El Monte, California on this 21 day of December 2007.


 Annette Hebert, Chief
 Mobile Source Operations Division

ATTACHMENT B (of 1) Engine Model Summary Form

U-R-002-0472-1

Manufacturer: Cummins Inc.
Engine category: Nonroad CI
EPA Engine Family: 8CEXL015.AAE
Mfr Family Name: G103
Process Code: Running Change

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
8760:FR10601	QSX15-C	600 @ 1800	350	212.5	1875 @ 1400	408	192.5	"DDI,ECM,TC,CAE"
8761:FR10579	QSX15-C	560 @ 1800	344	208.5	1743 @ 1400	375	177	"DDI,ECM,TC,
8761:FR10666	QSX15-C	530 @ 1800	319	193.5	1743 @ 1400	377	177.9	"DDI,ECM,TC,
8761:FR10571	QSX15-C	510 @ 1800	307	186.5	1743 @ 1400	375	177	"DDI,ECM,TC,
8761:FR10623	QSX15-C	500 @ 1800	301	183	1743 @ 1400	375	177	"DDI,ECM,TC,
8762:FR10582	QSX15-C	390 @ 2000	217	146.6	1346 @ 1400	292	137.9	"DDI,ECM,TC,
8762:FR10743	QSX15-C	410 @ 2000	249	168.0	1346 @ 1400	292	137.9	"DDI,ECM,TC,
8762:FR10582	QSX15-C	390 @ 2000	218	147.0	1346 @ 1400	294	138.6	"DDI,ECM,TC,
8762:FR10743	QSX15-C	410 @ 2000	230	155.4	1346 @ 1400	294	138.6	"DDI,ECM,TC,