

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)
2004	4CEXL015.AAB	15.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Engine Control Module, Direct Diesel Injection, Turbocharger, Charge Air Cooler			Generator	

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):

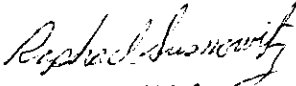
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225 ≤ kW ≤ 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	N/A	N/A	N/A
		CERT	--	--	6.3	0.6	0.10	--	--	--

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 7TH day of August 2003.


 per Allen Lyons, Chief
 Mobile Source Operations Division

U-R-002-0217

Engine Model Summary Form

ATTACHMENT Pg 1 of 1

Manufacturer: Cummins Inc.
Engine category: Nonroad CI
EPA Engine Family: 4CEXL015.AAB
Mfr Family Name: D103
Process Code: New Submission

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 J1980
8081FR10447	QSX15-G	690@1500	457	231.0	N/A	N/A	N/A	ECM,TC,CAC
8081FR10401	QSX15-G8	670@1500	449	227.0	N/A	N/A	N/A	ECM,TC,CAC
8081FR10444	QSX15-G6	615@1500	399	202.0	N/A	N/A	N/A	ECM,TC,CAC
8081FR10443	QSX15-G4	645@1500	352	178.0	N/A	N/A	N/A	ECM,TC,CAC
8081FR10442	QSX15-G3	505@1500	328	166.0	N/A	N/A	N/A	ECM,TC,CAC
8142FR10441	QSX15-G9	750@1800	420	255.0	N/A	N/A	N/A	ECM,TC,CAC
8142FR10440	QSX15-G7	685@1800	369	224.0	N/A	N/A	N/A	ECM,TC,CAC
8142FR10349	QSX15-G5	610@1800	330	220.0	N/A	N/A	N/A	ECM,TC,CAC