

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	6CEXL015.AAA	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 Other Industrial Equipment	

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 ≤ 560	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		FEL	N/A	N/A	6.3	N/A	N/A	N/A	N/A	N/A
		CERT	--	--	5.8	0.4	0.07	15	1	42

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.

Executed at El Monte, California on this 21ST day of November 2005.


 Allen Lyons, Chief
 Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT Pg 1 of 1

U-R-002-0321

Manufacturer: **Cummins Inc.**
 Engine category: **Nonroad CI**
 EPA Engine Family: **6CEXL015.AAA**
 Mfr Family Name: **A103**
 Process Code: **New Submission**

Don

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
2825:FR10318	QSX15-C	600@1800	328	199	2050@1400	417	197	DDI,ECM,TC,CAC
2825:FR10310	QSX15-C	500@2100	243	172.4	1743@1400	375	177.1	DDI,ECM,TC,C
2825:FR10320	QSX15-C	600@2100	294	208	2050@1400	415	196	DDI,ECM,TC,C
2825:FR10342	QSX15-C	460@1800	254	154.3	1743@1400	356	168.1	DDI,ECM,TC,C
2825:FR10375	QSX15-C	560@1800	314	190.5	2050@1400	417	197.0	DDI,ECM,TC,C
2825:FR10376	QSX15-C	540@2100	264	187.2	1730@1400	357	168.5	DDI,ECM,TC,C
2825:FR10377	QSX15-C	525@2100	259	183.7	1800@1400	375	177.1	DDI,ECM,TC,C
2825:FR10378	QSX15-C	475@2100	238	168.2	1743@1400	375	177.1	DDI,ECM,TC,C
2825:FR10381	QSX15-C	530@1800	252	178.4	1706@1400	343	162.0	DDI,ECM,TC,C
2825:FR10383	QSX15-C	510@1800	242	171.1	1743@1400	375	177.1	DDI,ECM,TC,C
2825:FR10465	QSX15-C	475@1800	261	158.3	1625@1400	327	154.2	DDI,ECM,TC,C
2825:FR10491	QSX15-C	635@2100	309	219.0	2050@1400	417	197	DDI,ECM,TC,C
2825:FR10548	QSX15-C	535@2100	263	186	1806@1400	339	160	DDI,ECM,TC,C
2825:FR10520	QSX15-C	485@2100	244	173.0	1637@1400	354	167.0	DDI,ECM,TC,C
2825:FR10591	QSX15-C	525@2100	259	183.7	1800@1400	387	182.7	DDI,ECM,TC,C
8741:FR10310	QSX15-C	500@2100	243	172.4	1743@1400	375	177.1	DDI,ECM,TC,C
8741:FR10320	QSX15-C	600@2100	294	208.0	2050@1400	415	196.0	DDI,ECM,TC,C
8741:FR10376	QSX15-C	540@2100	264	187.2	1730@1400	357	168.5	DDI,ECM,TC,C
8741:FR10381	QSX15-C	530@1800	252	178.4	1706@1400	343	162.0	DDI,ECM,TC,C
8741:FR10383	QSX15-C	510@1800	242	171.1	1743@1400	375	177.1	DDI,ECM,TC,C
8741:FR10377	QSX15-C	525@2100	259	183.7	1743@1400	375	177.1	DDI,ECM,TC,C
8741:FR10375	QSX15-C	560@1800	314	190.5	2050@1400	417	197.0	DDI,ECM,TC,C
8741:FR10318	QSX15-C	600@1800	328	199.0	2050@1400	417	197.0	DDI,ECM,TC,C