

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)							
2003	3CEXL0661AAC	10.8	Diesel 800								
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION								
Direct Dies	sel Injection, Turbocharge Engine Control Mo	er, Charge Air Cooler, dule	Crane, Loader, 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	EMISSION			E	XHAUST (g/kw-l		OPACITY (%)					
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK		
225 ≤ KW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50		
		FEL	N/A	N/A	6.2	N/A	0.15	N/A	N/A	N/A		
		ÇERT			5.6	0.8	0.11	11	1	20		

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 2674

_ day of November 2002.

Aller Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form ਮੁਜਾਮਨਮਅਚਹਾ ਾਤੂ (਼ਿਦੇ (

EPA Engine Family 3CEXL0661AAC Engine category: Nonroad Over 50 Manufacturer:

Cummins Inc.

Mfr Family Name: C353

Process Code: New Submission

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2828;FR2857	2828:FR2841	2828 FR2842	2828:FR2843	2828 FR2844	2828:FR2845	2828 FR285	2828:FR2852	2828/FR2859	2828;FR2926	2829.FR2923	2829:FR2839	2829.FR2840	2829 FR2849	2829 FR2850	2829:FR2912	2829 FR2921	2829:FR2922	2829 FR2925	2829:FH2952		0924-FH2918	1.Engine Code
QSM11-C	QSM11-C	OSM11-C	QSM11-C	O8M11-C	OSM11-C	OSM11-C	QSMITIC	QSM11-C	QSM11-0	OSM11+C	QSM11-C	OSM11-C	QSM11-C	QSM11-C	QSM11-C	QSM11-Q	QSM11-C	OSM11-C	CRMIT-C		OSMI1-C	2.Engine Model
315@2100	336@2100	335@2000	<u> </u>	330@2100	320@2000	335@1800	315@1800	330@2100	330@2100	375@2100	950@2100	350@2000	385@1800	360@1800	400@2100	400@2100	360@2100	opuz@d16	400@ toud	1000) 1000	425@1800	3.BHP@RPM (SAE Gross)
150	158	163	155	165	156	179	167	155	155	179	891	174	205	194	081	190	172	171	11	217	228	4,Fuel Rate: mm/stroke @ peak HP (for diosel only)
105,9	111.6	109.9	6.601	6'601	104.9	108.5	101.6	6.601	108.9	125.4	118.0	117.3	1170	+78.2	1130	10 full	1000	2 1 2	105.1	132.0	198.4	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)
1180@1400	1255@1400	1920@1400	1230@1400	1075@1400	120001400	1000 1400 1400 41 400 21	1160@1400	1770 (177) 1770 (177)	1230@1400	120#@1400	1010@1400	tadostado	1000000	1400001400	126061400	1400@1:00	4100001400	1350/31400	14000@1400	1400@1400	1450@1300	6.Torque @ RPM (SEA Gross)
5.801	404.2	240	2 7 6	0.7 2	200	997	200	224	200	5 A C C	3,00	245	256	259	237	269	9 85c	251	259	261	266	7.Fuel Rate: mm/stroke@peak torque
****	D tee	1114	1180	109.9	97.6	-1. 1. #:8	111.4	104.2	104.9	110	122.5	115,6	121.0	122.5	71117	122.5	122.5	118.7	122.5	123.0	116.7 //	8.Fuel Rate: (lbs/hr)@peak torque
	PU TO ECOAC	To EC,CAG	TO ECOAC	TC,EC,CAC	TO.EC.CAG	TC_EC;CAC	TOLEGIOAG	TC,EC,CAC	TO, EC, DAC	TO,EC,CAC	TO,EC,CAC	TC,EC,CAC	TCECCAC	TC,EO,CAG	TOLECICAC	TC/EC/CAC	To,Ec,cAc	TC,EC,CAC	TC,EC,CAC	10,80,000	TOP OF THE CASE	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

U-R-002 -0189