



Pursuant to the authority vested in the Air Resources Board (ARB) by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order (EO) G-02-003; and

Pursuant to the December 15, 1998 Settlement Agreement (SA) between ARB and the manufacturer, and any modifications thereof to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's GVWR over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	ENGINE SIZE (liter)	FUEL TYPE (CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas)	STANDARDS & TEST PROCEDURE	INTENDED SERVICE CLASS (L/M/H HDD=light/medium/heavy heavy-duty [HD] diesel; UB=urban bus; HDO=HD Otto)
2004	4CEXH0661MAU	10.8	Diesel	Diesel	HHDD
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		ENGINE MODELS / CODES (rated power in horsepower, hp)			
PCM, EGR, DDI TC, CAC		SEE ATTACHMENT			

GVWR=gross vehicle weight rating TWC/OC=three-way/oxidizing catalyst WU (prefix) =warm-up cat. O2S=oxygen sensor HO2S=heated O2S TBI=throttle body fuel injection MFI=multi port fuel injection SFI=sequentialMFI DDI/IDI=direct /indirect diesel injection TC/SC=turbo/super charger CAC=charge air cooler EGR=exhaust gas recirculation AIR=secondary air injection PAIR=pulsed AIR SPL=smoke puff limiter ECM/PCM=engine /powertrain control module EM=engine modification 2 (prefix)=parallel (2) (suffix)=in series HC=hydrocarbon NMHC=non-methane HC NOx=oxides of nitrogen CO=carbon monoxide PM=particulate matter HCHO=formaldehyde g/bhp-hr=grams per brake horsepower-hour

The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT), in g/bhp-hr, for this engine family under the "Federal Test Procedure" (FTP) (Title 13, California Code of Regulations, (13 CCR) Section 1956.1 (urban bus) or 1956.8 (other than urban bus)), and under the "Euro III Test Procedure" (EURO) in the Settlement Agreement, including EURO's "Not-to-Exceed" standard(s). "Diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Part 86, Subpart A, Section 86.091-23(c)(2)(i) in lieu of testing. (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR Section 1956.1 or 1956.8 are in parentheses.)

* = not applicable	EURO'S NTE		NMHC: 0.625		NOx: *		NMHC+NOx: 3.0		PM: 0.125					
	HC		NMHC		NOx		NMHC+NOx		CO		PM		HCHO	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
(DIRECT) STD	*	*	0.5	0.5	*	*	*	*	15.5	15.5	0.10	0.10	*	*
AVERAGE STD	*	*	*	*	*	*	*	*	*	*	*	*	*	*
FEL	*	*	*	*	*	*	2.4	2.4	*	*	*	*	*	*
CERT	*	*	0.2	0.1	*	*	2.0	2.1	0.8	0.4	0.10	0.08	*	*

BE IT FURTHER RESOLVED: That certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

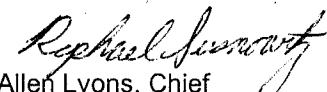
BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labels), and 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: That the listed engine models are conditionally certified subject to the following conditions: (1) The SA is in effect; (2) The manufacturer is in compliance with all applicable certification requirements of the SA and any modifications thereof.

Engines certified under this Executive Order shall conform to all applicable California emission regulations and all requirements under the Settlement Agreement and any modifications thereof. The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order hereby supersedes Executive Order A-021-0367-1 dated October 26, 2004.

Executed at El Monte, California on this 24TH day of December 2004.


For: Allen Lyons, Chief
Mobile Source Operations Division

Engine Model Summary Form

A-021-0367-2

Manufacturer: Cummins Inc.
Engine category: On-highway HDDE
EPA Engine Family: 4CEXH0661MAU
Mfr Family Name: 353U
Process Code: Running Change

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm ³ /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 ³ /stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
8273;FR2961	ISM 330ST	370@1800	215	131	1250@1200	244	99	PCM, EGR, TC, <i>AC, DDI</i>
8273;FR2985	ISM 380	380@1800	216	131	1200@1200	237	96	PCM, EGR, TC,
8273;FR2975	ISM 330	340@1800	199	121	1250@1200	244	99	PCM, EGR, TC,
8273;FR2976	ISM 310	319@1800	187	114	1150@1200	229	93	PCM, EGR, TC,
8273;FR2981	ISM 320V	320@1800	188	114	1150@1200	229	93	PCM, EGR, TC,
8273;FR2982	ISM 285V	320@1800	188	114	1150@1200	229	93	PCM, EGR, TC,
8273;FR2962	ISM 280	320@1800	188	114	1150@1200	229	93	PCM, EGR, TC,
8505;FR2961	ISM 330ST	370@1800	215	131	1250@1200	244	99	PCM, EGR, TC,
8505;FR2985	ISM 380	380@1800	216	131	1200@1200	237	96	PCM, EGR, TC,
8505;FR2975	ISM 330	340@1800	199	121	1250@1200	244	99	PCM, EGR, TC,
8505;FR2976	ISM 310	319@1800	187	114	1150@1200	229	93	PCM, EGR, TC,
8505;FR2981	ISM 320V	320@1800	188	114	1150@1200	229	93	PCM, EGR, TC,
8505;FR2982	ISM 285V	320@1800	188	114	1150@1200	229	93	PCM, EGR, TC,
8505;FR2962	ISM 280	320@1800	188	114	1150@1200	229	93	PCM, EGR, TC,
8556;FR2961	ISM 330ST	370@1800	190	136	1250@1200	210	100	PCM, EGR, TC,
8556;FR2975	ISM 330	340@1800	178	127	1250@1200	210	100	PCM, EGR, TC,
8556;FR2976	ISM 310	320@1800	166	120	1150@1200	194	92	PCM, EGR, TC,
8556;FR2962	ISM 280	320@1800	166	120	1150@1200	194	92	PCM, EGR, TC,
8556;FR2981	ISM 320V	320@1800	166	120	1150@1200	194	92	PCM, EGR, TC,
8556;FR2982	ISM 285V	320@1800	166	120	1150@1200	194	92	PCM, EGR, TC,
8556;FR2985	ISM 380	380@1800	194	139	1200@1200	202	96	PCM, EGR, TC,

ATTACHMENT

A-021-0367-2

Some are above