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

IT IS ORDERED AND RESOLVED: 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.

engines	shall be in all m	ateriai resper	Jis the same do	I STANDARDS	INTENDED	3		
YEAR	ENGINE FAMILY	ENGINE SIZES (L)	FUEL TYPE	& TEST PROCEDURE	SERVICE CLASS 2	ECS & SPECIAL FEATURES 3		
		10.8	Diesel	Diesel	HHDD	PCM, EGR, DDI, TC, CAC		
	ENGINE MODELS / CODES (rated power, in hp)							
ENGINE (L	·!			See Attachme	ent			
10.8								
•				*				
*				•		O diagonal d		
*		12 C	CP vvz=Title 13. California Co	de of Regulations, Sec	tion xyz; 40 CFR B	6.abc=Title 40, Code of Federal Regulations, Section 86.abc;		

*=not applicable; GVWR=gross vehicle weight rating; 13 CCR xyz=Title 13, California Code of Regulations, Section xyz; 40 CFR 86.abc=Title 40, Code of Federal Regulations, Section 86.abc;
L=liter; hp=horsepower; kw=kilowatt;
CNG/LNG=compressed/iquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;

Following are: 1) the FTP exhaust emission standards, or family emission limit(s) as applicable, under 13 CCR 1956.1 (urban bus) or 13 CCR 1956.8 (other than urban bus), 2) the EURO and NTE limits under the applicable California exhaust emission standards and test procedures for heavy-duty diesel engines and vehicles (Test Procedures); and 3) the corresponding certification levels, in g/bhp-hr, for this engine family. "Diesel" CO, EURO and NTE certification compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable Test Procedures in lieu compliance may have been demonstrated by the manufacturer as provided under the applicable that the lieu compliance may have been demonstrated by the manufacturer as provided under the lieu compliance may have been demonstrated by the manufacturer as provided under the lieu compliance may have been demonstrated by the lieu compliance may have been demonstrated by the lieu compliance may have been demonstrated by the lieu complian 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 1956.1 or 13 CCR 1956.8 are in parentheses.)

ingines, the STD and CERT values for default operation portation							T		I PM		нсно	
	NMHC		NOx		NMHC+NOx		CO			EURO	FTP	EURO
						FTP EURO	FTP	EURO	FTP	EURO		
	FTP	EURO	FTP	EURO		1	15.5	15.5	0.10	0.10		<u> </u>
70	0.5	0.5	*	*	2.5	2.5	13.3	+		*	•	1 *
TD			•	•	•	•	•	L		 		
EL	l			•	2.4	2.3	1.0	0.4	0.10	0.06		
CERT	0.1	0.1					19.375		0,125			•
	0.625		*		3.125				The second secon			
NTE _			ETR=Federal Test Procedure: EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed: STD=standard or emission test cap;									

⁴ g/bhp-hr=grams per brake horsepower-hour; FTP=Federal Test Procedure; EURO=Euro III European Steady-State Cycle; NTE=Not-to-Exceed; STD=standard or emission test cap; FEL=family emission limit; CERT=certification level; NMHC/HC=non-methane/hydrocarbon; NOx=oxides of nitrogen; CO=carbon monoxide; PM=particulate matter; HCHO=formaldet

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

Engines certified under this Executive Order must conform to all applicable California emission regulations.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

Executed at El Monte, California on this _______ day of December 2005.

Mobile Source Operations Division

CNG/LNG=compressed/liquefied natural gas; LPG=liquefied petroleum gas; E85=85% ethanol fuel; MF=multi fuel a.k.a. BF=bi fuel; DF=dual fuel; FF=flexible fuel;

L/MH HDD=light/medium/heavy heavy-duty dieset; UB=urban bus; HDO=heavy duty Otto;

ECS=emission control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=dieset particulate filter; HO2S/O2S=heated/oxygen sensor; BCS=heated/air-updates are control system; TWC/OC=three-way/oxidizing catalyst; WU (prefix) =warm-up catalyst; DPF=dieset particulate filter; HO2S/O2S=heated/oxygen sensor; BCS=heated/air-updates are control injection; GCARB=gaseous carburetor; fuel-ratio sensor (a.k.a. universal or linear oxygen sensor); TBI=throttle body fuel injection; SFI/MFI=sequential/multi port fuel injection; DGI=direct gasoline injection; SPL=smoke puff limiter; IDI/DDI=indirect/direct diesel injection; TC/SC=urbo/super charger, CAC=charge air cooler; EGR=exhaust gas recirculation; PAIR/AIR=pulsed/secondary air injection; SPL=smoke puff limiter; (2004-may26) [2004-may26] [2

Eligille Model c Imary Form

Attochmont

Engine category: Manufacturer:

On-highway HDDE

Cummins Inc.

EPA Engine Family. 6CEXH0661MAX

Mfr Family Name: Process Code:

353X

New Submission

Federal Ratings -8563;FR20025 -8563;FR20028	1.Engine Code 8572;FR20029 8572;FR20030 8572;FR2993 8572;FR2994 8572;FR20031 8572;FR20032 8572;FR20034 8572;FR20010 8572;FR20011 8572;FR20011 8572;FR20011 8572;FR20011 8558;FR20028
ISM 410	2.Engine Model ISM 500 ISM 500 ISM 500 ISM 500 ISM 475 ISM 450 ISM 450 ISM 450 ISM 430 ISM 430 ISM 430 ISM 430 ISM 425V ISM 410 ISM 400
425@1800 425@1800	3.BHP@RPM (SAE Gross) 500@2000 500@2000 500@2000 500@2000 450@1900 450@1900 450@1900 450@1900 450@1900 450@1900 425@1800 425@1800
250 250	4. Fuel Rate: mm/stroke @ peak HP (for diesel only) 270 270 270 270 270 255 255 255
1 52	5. Fuel Rate: (Ibs/hr) @ peak HP (for diesels only) 182 182 182 182 183 163 163 163 163 163 163 163 163 163 16
1550@1200 1550@1200	6.Torque @ RPM (SEA Gross) 1550@1200 1550@1200 1450@1300 1450@1300 1550@1200 1550@1200 1550@1200 1450@1300 1450@1300 1450@1300 1450@1300 1550@1200 1550@1200
287 — 287 —	7. Fuel Rate: mm/stroke@peak torque 297 297 285 285 297 297 297 297 297 2985 285 285 285 285 287 287
116	8. Fuel Rate: (lbs/hr)@peak torque [122 DAI 122 CAC 125 J 125 M 122 M 122 M 125 125 125 125 125 125 125 125 125 125
PGM, EGR, TG,	8. Fuel Rate: 9. Emission Control (lbs/hr)@peak torque Device Per SAE J1930) 122

公子,这一个人,这一个人,这一样的人,只是这种情况,我们就是一个人,我们就是一个人,我们们的人,我们们的人,我们们们的人,这个人,我们们们的人,我们们们们的人, 一个人,这个人,也是一个人,也是一个人,也是一个人,我们也是一个人,我们就是一个人,我们就是一个人,我们们们的人,我们们们们的人,我们们们们们们们们们们们们们们