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)	INTENDED SERVICE CLASS (L/M/H HDD=light/medium/heavy heavy-duty [HD] diesel; UB=urban bus; HDO=HD Otto)	
2004	4CEXH0661MAT	10.8	Diesel	Diesel	HHDD
	IAL FEATURES & CONTROL SYSTEMS		ENGINE MODELS / CODES	(rated power in h	orsepower, hp)
	GR, TC, CAC, PCM		SEE AT	TACHMENT	
ias recircula	tion AiR=secondary air is	ori-sequenti Njection PAIR: HC≃hvdrocar	ray/oxidizing catalyst WU (prefix) =warm-up cat. alMFI DDI/IDi=direct /indirect diesel injection TG =pulsed AIR SPL=smoke puff limiter ECM/PCM=c bon NMHC=non-methane HC NOx=oxides of ni sepower-hour	/SC=turbo/super cha	irger CAC=charge air cooler EGR=exhaust

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.)

					EUF	O'S NTE	NMHC:	0.625	NOx: *		NMHC+	NOx: 3.0	PM:	0.125
* = not applicable	+	1C	N	MHC	N	Ox	NMH	C+NOx		0	F	M	НС	НО
	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	٠	
AVERAGE STD	•	•	٠	•	*	*			*	•			•	
FEL	•	•	•		*	*	2.4	2.4	•	•	-	•	•	•
CERT	•	•	0.2	0.1	*	*	2.0	2.2	0.6	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-021-0366 dated January 26, 2004.

Executed at El Monte, California on this

Allen Lyons, Chief

Mobile Source Operations Division

day of August 2004.

Engine Model Thurany Form

Manufacturer: Cummins Inc.

Engine category: On-highway HDDE

EPA Engine Family: 4CEXH0661MAT

Mfr Family Name: 353T

Process Code: New Submission

Attochment

A-021-0366-1

	4	Attachment																A	- C) a	1-	0:	3 6	-ط -					
9.Emission Control Device Per SAE J1930	FPCM FGB TC -+	PCM FGR TC	PCM EGB TO	PCM EGR TO	DOM EGD TO	DCM EGD TO	BOM EGE TO	PCM EGR TC	DOM BOB TO	PCM EGB TO	PCM EGB TC	DCM EGB TO	DOM EGB TO	DOL TOT TO	POM, EGH, TO,	DOM FOR TO	PCM, EGH, IC,	PCM, EGH, TC,	PCM, EGR, TC.	PCM EGR TC	PCM FGR TG	POM EGR TO	FGB	PCM FGR TG	PCM EGR TC	DOM EGD TO	POM EGR. TO.	PGM FGR TC	CPCM FGR TO
8.Fuel Rate: (lbs/hr)@peak torque	118		118	118	108	118	a tr	108	118	108	108	118	118	601	901	007	lua	108	108	108	125	125	125	125	125	195	118	118	118
7.Fuel Rate: mm/stroke@peak torque	291	291	1 291	. 291	796	29.1	192	267	166	792	792	291	281	790	702	750	707	797	-267	267	285	. 285	285	285	285	285	291	291	991
6.Torque @ RPM (SEA Gross)	1450@1200	1450@1200	1450@1200	1450@1200	1350@1200	1450@1200	1450@1200	1350@1200	1450@1200	1350@1200	1350@1200	1450@1200	1450@1200	1350@1900	1850@1200	1350@1900	1020-000-000	UST/BIOST	1350@1200	1350@1200	1450@1300	1450@1300	1450@1300	1450@1300	1450@1300	1450@1300	-1450@1200	1450@1200	1450/m1000
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	163	163	140	140	140	136	136	136	136	136	129	136	124	124	129	136	160	3	121	131	182	182	162	162	146	145	163	163	140
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	569	269	231	231	231	224	224	224	224	224	213	224	204	204	213	224	960	503	199	215	270	270	267	267	241	241	269	269	931
3.BHP@RPM (SAE Gross)	450@1800	450@1800	400@1800	400@1800	400@1800	385@1800	385@1800	385@1800	385@1800	385@1800	365@1800	385@1800	350@1800	350@1800	365@1800	385@1800	450-01800	വാ ക്രാഹ	340@1800	370@1800	500@2000	900@9009	450@1800	450@1800	400@1800	450@1800 ·	450@1800	450@1800	400 <i>~</i> 1800
2.Engine Model	ISM 450	ISM 450	ISM 400	ISM 400	ISM 400	ISM 385	ISM 385V	ISM 385V	ISM 370	ISM 370	ISM 365	ISM 350	1SM 350V	ISM 350V	ISM 350	ISM 350ST	ISM 340	and man	DEE WEI	ISM 330ST	ISM 500	ISM 500	ISM 450	ISM 430	ISM 400	SM 450	ISM 450	ISM 450	ISM ANN
1.Engine Code	8271,FR2989	8271;FR2964	8271;FH2990	8271;FR2983	8271;FR2984	8271;FR2986	8271;FR2978	8271;FR2979	8271;FR2953	8271;FR2972	8271;FR2987	8271;FR2991	8271;FR9980	8271;FR2963	8271,FR2973	8271;FR2974	8271-FR9988	00074 F70000	847 I,FH296U	8271,FR2992	8377;FR2993	8377;FR2994	8377;FR20009	8377,FR20010	8377;FR20011	8377;FR20012	8503;FR2989	8503;FR2964	A5N3·FR0aan

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	H.	700	PCM, EGR, TC,	PCM, EGH, TC,	PCM, EGH, TC,	PCM, EGR, TC.	000	DCM EGD TO	DOM FOR TO	DOM FOR TO	/ rom, EGH, 1C,	PCM, EGR, TC,	PCM, EGR, TC,	PCM, EGR, TC,	PCM FGR TC /	FGB	FGR	; ;		200	Ë.	PCM, EGR, TC, 📪	PCM, EGR, TC,	PCM, EGR, TC.		PCM EGB TO	DOM: FORT, TO,	PCM FGR TO	DOM EGG TO	POW FGB TC		PCM FGB TC		בנים .	֓֞֝֟֜֝֟֝֟֝֟֝֓֓֓֟֝֓֓֓֟֝֟֝֓֓֓֟֝֟֝֓֓֓֟֝֟֝֓֓֓֟֝֟֝֓֓֓֟֝֟֝֓֓֡֝֡֡֝֡֝֟֝֓֡֡֝֡֡֝֡֡֝֡֡֡֝֡		FOM, EGIT, TC,	HGH,	PCM, EGR, TC,	PCM, EGB, TC.	PCM, EGR, TC,
シーメクリン・ス	118	901			108	118	7 108						7 108	7 108	-							118	7 108	1 118	-		-					118		-						108	
£ 1	450@1200 - 291 350@1200 - 967		4500 1200 291			450@1200 26	350@1200 267						350@1200 350@1200	350@1200 267	350@1200 26	350@1200 267				AEGGAGGG			3 50@ 1200 267	450@1200 291	350@1200 267			350@1200 267					350@1200 267		350@1200 267					350@1200 267	350@1200 267
	1850@	F	136		IGE OC	-	1	129 1350		1					163 1350		131 1350@1			163	196 1450			136 1450	136 1350	1		-		121 1350	1	136 1450	-	-	-					136 1350	
0.00	231	224	224	766	+75	224	224	213	224	204	204	010	613	224	269	199	215			596	PGG	4	224	224	224	204	204	213	224	199	269	224	224	224	224	204	204	010	213	224	AC.
400001800	400@1800	385@1800	385@1800	385@1800	395@1900	000 @000	385@1800	365@1800	385@1800	350@1800	350@1800	365@1800	Cocal management	385@1800	450@1800	340@1800	370@1800			450@1800	385@1800	ODE CHOOD	365(@ 8UL)	385@1800	385@1800	350@1800	\$50@1800	365@1800	385@1800	340@1800	450@1800	385@1800	385@1800	385@1800	385@1800	350@1800	350@1800	965@1800	Opping 1000	340@1800	ממטושותבמ
ISM 400	ISM 400	ISM 385	ISM 385V	SM 385V	(SM 370	Distant	DVS MSI	ISM 365	ISM 350	SM 350V	ISM 350V	ISM 350	DOCUMENT OF THE PROPERTY OF TH	Tener Mei	ISM 340	ISM 380	ISM 330ST			ISM 450	ISM 385V	(CM SOCV	ACOC MICH	ISM 370	ISM 370	ISM 350V	ISM 350V	ISM 350	ISM 350ST	ISM 330	ISM 450	1SM 385V	ISM 385V	ISM 370	ISM 370	1SM 350V	ISM 350V	ISM 350	ISM 9509T	ISM 330	222 1121
8503.FR	8503;FR295+	8503;FH2986	8503;FR2978	8503,FR2979	8503 FR2953	0500-10000	Z/AZUJ'enco	8503;FR2987	8503,FR2991	8503;FR9980	8503;FR2963	8503:FR2973	0500,100071	0000,FR29/4	8862H-1;E0G8	8503;FR2960	8503;FR2992		FEDERAL	8272,FR2989	8272;FR2978	8979-509070	0070-1100000	0212,FH2953	8272,FR2972	8272;FR9980	8272;FR2963	8272;FR2973	8272;FR2974	8272;FR2960	8504;FR2989	8504;FR2978	8504;FR2979	8504;FR2953	8504,FH2972	8504;FR9980	8504,FH2963	8504:FR2973	8504 FR9974	8504.FR2960	ARAM: 111/200