State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-173

Relating to Certification of New Heavy-Duty Motor Vehicle Engines
CUMMINS ENGINE COMPANY, INC.

Pursuant to the authority vested in the Air Resources Board by Sections 43100, 43102 and 43103 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-45-9;

IT IS ORDERED AND RESOLVED: That the following Cummins Engine Company, Inc. 1997 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

Fuel Type: Diesel

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
VCE661FJDABA (353H)	10.8	661	Charge Air Cooler Turbocharger Powertrain Control Module Oxidation Catalytic Converter

Engine models and codes are listed on attachments.

The following are the certification exhaust emission standards for this engine family in grams per brake-horsepower-hour:

Total Carbon <u>Hydrocarbons</u> <u>Monoxide</u>		Nitrogen <u>Oxides</u>	<u>Particulates</u>	
1.3	15.5	4.0	0.05	

The following are the certification exhaust emission values for this engine family in grams per brake-horsepower-hour:

Engine	Total	Carbon	Nitrogen	<u>Particulates</u>
Family	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
VCEGelFJDABA (353H)	0.2	0.5	4.0	0.04

BE FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Section 2035 et seq.).

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BE IT FURTHER RESOLVED: That the listed engine models are certified for used in urban buses.

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 order and attachments.

Executed at El Monte, California this $\frac{23}{2}$ day of December 1996.

R. B. Summerfield, Chief

Mobile Source Operations Division

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1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Cummins E	ngine Company,	Inc.	Engine Fam	ily (353H) vo	CE661FJDABA
Displa	cement:		10.8 Liter	s	/ 661	Cubic Inches
Maximum Rated	l Power:	330	HP @ 2000	RPM Eng	ine Configur	ation: I-6
Ignition: Co	mpression <u> X</u>	Compre	ssion with Gl	ow Plug	Sr	park
Fuel Type(s):	Dedicated_	Flex-Fuel_	Dual-Fuel	Diese	 1 х м100	M85
	CNG L	NG LPG	Other (spe	cify)		
Diesel Cert F	uel: 13 CCR	2282 <u>X</u>	40 CFR 86.13	13-90	40 CFR 81	6 1313-94
Primary Inten	ded Service	Class: LHD	мно		Urb	an Bus X
Exhaust ECS (include.MFI,	TC, CAC): Pcm	OC (TC, CAC)			
		·	(use abbrevi	ations per :	SAE J1930 SE	P91)
Engine Model	Rated HP	Fuel Rate @ Rated HP	Fuel Pump	ECA (DOM	EGR	PTOX /
(Eng Code)	@ RPM	mm3 / stroke	Part No.	Part No.	Valve Part No.	Catalytic Converter
		(lbs/hr)				Part No.
M11-330E+	330 @ 2000	169 (114)	3095731	3096662	N/A	3926265
(2141)						
	280 3 2000	139 (94)	3095731	3096662	N/A	3926265
(2141)						
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