State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-171

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	<u>Liters (C</u>	ibic Inches)	Exhaust Emission Control Systems and Special Featur	
VCE661EJDATW (353E)	10.8	~~	Charge Air Cooler Turbocharger Powertrain Control Module	

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	Nitrogen	<u>Particulates</u>
H <u>ydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
1.3	15.5	5.0	0.10

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>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
VCE661EJDATW (353E)	0.2	0.6	4.5	0.05

BE IT 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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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. ρ

Executed at El Monte, California this $\frac{35}{2}$ day of December 1996.

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						
Displacement:		10.8 Lite	rs		/ 661 Cı	bic Inches
Maximum Rated Pov	ver: 400	HP	@ <u>1800</u> R	RPM Engine	e Configura	tion: I-6
Ignition: Compre	ession X	Compression	n with Glow	Plug	Spa	rk
Fuel Type(s): De	edicated 🗶 F	lex-Fuel	Dual-Fuel	_ Diesel_:	<u>к</u> м100	M85
c	NGLNG	LPGC	ther (speci	fy)		
Diesel Cert Fuel:	: 13 CCR 2282	40	CFR 86.1313	- 90	40 CFR 86.	1313-94 <u>X</u>
Primary Intended	Service Class	: LHD	MHD	нно <u>х</u>	Urban	n Bus
Exhaust ECS (incl	lude.MFI, TC,	CAC): PCM	(TC, C	AC		
				ions per SAN		
Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
M11-400E+ (2037)	400 @ 1800	209 (127)	3095040	3090528 3096662	N/A	N/A
M11-370E+ (2037)	385 @ 1800	199 (121)	3095040	3090528 3096662	N/A	N/A
M11-370E+ M11-370 ESP+ ⁽¹⁾ (2037)	370 3 1800	191 (116)	3095040	3090 5 28 3096662	N/A	N/A
M11-350E+ (2037)	365 @ 1800	188 (114)	3095040	3090528 3096662	N/A	N/A
M11-350E+ (2037)	350 @ 1800	180 (109)	3095040	3090528 3096662	N/A	N/A
M11-350 ESP+ (2037)	350 @ 1800	180 (109)	3095040	3090528 3096662	N/A	N/A
M11-330E+ (2037)	346 @ 1800	173 (105)	3095040	3090528 3096662	N/A	N/A
M11-330E+ (2037)	330 & 1800	170 (103)	3095040	3090 528 30966 62	N/A	N/A
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Date Issued:						
Revisions (1)RC1-353E-96						