State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-175

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: Dies			Exhaust Emission Control Systems and Special Features
Engine Family VCE505D6DAAA (413E)	Liters 8.3	(Cubio zar	Charge Air Cooler Turbocharger Oxidation Catalytic Converter

Engine models and codes are listed on attachments.

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

engine family	in grams por	witrogen	
Total	Carbon <u>Monoxide</u>	Nitrogen <u>Oxides</u>	Part lented es
Hydrocarbons	15.5	5.0	0.11)
1.3	13.3	t omission	values for this

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

engine family	in grams per br		w:twomen		
Engine Family	Total <u>Hydrocarbons</u>	Carbon <u>Monoxide</u>	Nitrogen Oxides	<u>Parti</u>	2
VCE505D6DAAA	0.1	0.7	4.6	į	
(413E)		- u- 13c	ted engine m	odels,	

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

CUMMINS ENGINE COMPANY, INC.

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 23 day of December 1996.

B. Summerfield, Chiet

Mobile Source Operations Division

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

Manufacturer Cun	nmins Engine Co	mpany, Inc. En	gine Family(413E)VCE505	D6DAAA		
	ment:/8.3			•		Cubic Inches	
Maximum Rated Power: 306 HP@ 2400 RPM Engine Configuration: I-6							
Ignition: Compression X Compression with Glow Plug_ Spark_							
			Dual-Fuel_	Diesel <u>X</u>	M100_	M85_	
CNG_ LNG_ LPG_ Other (specify)							
Diesel Cert Fuel:	Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94_X						
Primary Intended Service Class: LHDMHD_X_				HHD	U:	rban Bus_	
Exhaust ECS (incl			OC (TC, CAC)				
Exitatist Eco (IIIo		,	(use abbreviatio	ns per SAE J193	0 SEP91)		
Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.	
C8.3-300 (1564)	300 @ 2200	154 (114.0)	FP:3922425 IN:3922913 IN:3926117	N/A	N/A	3926265 3929434 3932434	
C8.3-300 (2102)	300 @ 2200	154 (114.0)	FP:3922425 IN:3928384	N/A	N/A	3926265 3929434 3932434	
C8.3-325 (2169)	306 @ 2400	150 (121)	FP:3931335 IN:3931262	N/A	N/A	3926265 3929434 3932434	
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Date Issued:							
Revisions:	1					:	