State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-156

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. 1996 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds:

<u>Fuel Type</u>: Diesel

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TCE661EJDARA (353D)	10.8	(661)	Powertrain Control module Turbocharger Charge Air Cooler

Engine models and codes are listed on attachments.

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

Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
1.3	15.5	5.0	0.10

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

Engine	Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
TCE661EJDARA (353D)	0.2	0.9	4.8	0.06

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.).

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

day of November 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

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1996 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer Cummins Engine Company, Inc. Engine Family (353D) TCE661EJDARA						
Displacement: / 10.8 Liters / 661 Cubic Inches						
Maximum Rate	Maximum Rated Power: 400 HP @ 1800 RPM Engine Configuration: I-6					
Ignition: Co	ompression X	Com	pression with	Glow Plug	•	Spark
Fuel Type(s)	: Dedicated_	X Flex-Fuel_	Dual-Fuel	Diesel	— X M100	 M85
Diesel Cert I	Fuel: 13 CCR	2282	40 CFR 86.131		40 CFR 86	.1313-94 X
Primary Inter	nded Service	Class: LHD	MHD	HHD 2		ban Bus_
Exhaust ECS ((include.MFI,	TG, CAC):	PCM	(TC, CAC)		
			(use abbrevia	tions per SA	E J1930 SEP	91)
Engine Model	Rated HP	Fuel Rate	Fuel Pump		EGR	PTOX /
(Eng Code)	@ RPM	@ Rated HP mm3 / stroke	& Injector Part No.	ECM/PCM Part No.	Valve	Catalytic
	·	(lbs/hr)	rure no.	Part No.	Part No.	Converter Part No.
M11-400E	400 @ 1800	213 (129)	3084589	2004472		
(1885)		, 223 (223)	3087557	3084473	N/A	N/A
(1973)						
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