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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-161

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:

Fuel Type: Compressed Natural Gas or Liquid Natural Gas (CNG or LNG)

Engine Family	<u>Liters</u>	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TCE505D1CARW (553B)	8.3	505	Charge Air Cooler Turbocharger Powertrain Control Module Heated Oxygen Sensor

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:

Non-Methane	Carbon	Nitrogen	
<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	<u>Particulates</u>
1.2	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	Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	_Oxides_	
TCE505D1CARW (553B)	0.6	7.3	3.0	0.04

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.).

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 27th day of June 1996.

(R. B. Summerfiel

Assistant Division Chief Mobile Source Division

E.O.# A-21-161

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

Manufacturer <u>C</u>	ummins Engine (Company, Inc. E	ngine Family	(553B) TCE50	5D1CARW	
Displacement:	/ 8.3	Liters			/ 505	Cubic Inches
Maximum Rated	Power: 250	HP @	_RPM	· Er	ngine Configur	
Ignition: Compr	ession	Comp	ression with Glov			Spark <u>X</u>
Fuel Type(s): Dedicated				DieselM100		
		CNG <u>X</u> LI				<u></u>
Diesel Cert Fuel:	13 CCR 2282		40 CFR 86.1313			86.1313-94
Primary Intended	Service Class: I	_HD	MHD <u>X</u>		Urban	-
		'AC):				<u>.</u>
	. ,	·		ons per SAE J19.	30 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.
C8.3-250G (2167)	250 @ 2400		N/A	3930507	N/A	N/A
Date Issued: Revisions:	· ·			<u> </u> 1		<u> </u>