(Page 1 of 2)

State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-166

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 <u>Systems and Special Features</u>
TCE505F1CARW (553D)	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 <u>Hydrocarbons</u> <u>Monoxide</u>		Nitrogen 	<u>Particulates</u>	
1.2	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	Non-Methane	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	<u>Oxides</u>	
TCE505F1CARW (533D)	0.4	9.0	3.5	0.02

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.

-4

-

BE IT FURTHER RESOLVED: That the listed engine models is certified for use 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 27^{th} day of August 1996.

lu Konstehn fr

R. B. Summerfield
Division Chief
Mobile Source Operational Division

E.O.# A-21-166

Page <u>1</u> of <u>1</u>

199<u>6</u> AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

-4 .

۰.

Manufacturer <u>C</u>	ummins Engine (Company, Inc. E	Ingine Family	(553D) TCE50)5F1CARW	
Displacement: _	/ 8.3	_Liters				Cubic Inches
Maximum Rated	Power: 250	HP @ <u>2400</u>	_RPM	Er	igine Configur	
Ignition: Compre			pression with Glow		Bur Sourigan	Spark <u>X</u>
Fuel Type(s): De	edicatedX		Dual-Fuel	-	M100_	
			NG <u>X</u> LPG_			
Diesel Cert Fuel:	13 CCR 2282_		40 CFR 86.1313			86.1313-94_
Primary Intended	Service Class:]	LHD	MHD_		Lurban H	
		CAC):				ous <u>A</u>
			(use abbreviatio	ons per SAE J193	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 (2179)	250@2400		N/A	3930507	N/A	N/A
Date Issued:					l	
Revisions:	I	ľ	ł	I		
				1		