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## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER A-21-165

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	Liters	(Cubic Inches)	Exhaust Emission Control  Systems and Special Features
TCE505F1CAAW (553C)	8.3	505	Charge Air Cooler Turbocharger Powertrain Control Module Oxidation Catalytic Converter 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>Oxides</u>	<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>	Hydrocarbons	<u>Monoxide</u>	<u>Oxides</u>	
TCE505F1CAAW (533C)	0.1	1.1	2.6	0.01

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.).

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 37th day of August 1996.

R. B. Summerfield

Division Chief

Mobile Source Operational Division

E.O.#	A-Z	1-	16	5
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## 199<u>6</u> AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer C	Cummins Engine (	Company, Inc. E	Engine Family	(553C)TCE5	05E1C	
Displacement: _	/ 8.3	_Liters	<u> </u>	(SSSC) ICES		
Maximum Rated	Power: 250	HP @2400	RPM	-		Cubic Inches
Ignition: Compr				DI	ngine Configu	ration: <u>I-6</u>
			pression with Glov			Spark <u>X</u>
			Dual-Fuel_	Diesel_	M100_	M85_
Diesel Cert Fuel:	13 CCR 2282	CNG <u>X</u> Li	NG <u>X</u> LPG_	Other (sp	pecify)	
Primary Intended			40 CFR 86.1313		40 CFR	. 86.1313-94_
			MHD_	HHI	O_ Urban	Bus <u>X</u>
Exhaust ECS (Inc	riude.MFI, TC, C	AC):	PCM, H02S (TC	CAC),OC		
		Fuel Rate	(use abbreviatio	ons per SAE J19	30 SEP91)	
Engine Model	Rated HP	@ Rated HP	Fuel Pump & Injector	ECM/PCM	EGR	PTOX /
(Eng Code)	@ RPM	mm3 / stroke	Part No.	Part No.	Valve Part No.	Catalytic Converter
		(lbs/hr)				Part No.
C8.3-250G	250@ 2400		N/A	3930507	N/A	3928277
(2180)						3928277
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