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State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-158

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)	Systems and Special Features
TCE661EJDARB (353F)	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>	
TCE661EJDARB (353F)	0.2	0.7	4.5	0.05

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 29

day of November 1995.

R. B. Summerfield

Assistant Division Chief Mobile Source Division

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Page	1	of	_1_

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

Manufacturer	Cummins E	ngine Company,	Inc.	Engine Fam	$_{ m nily}(_{ m 353F})$ $_{ m TC}$	CE661EJDARB
Displacement		/ 10.8	Liters		/ 661	Cubic Inches
Maximum Rate	d Power:	350	HP @ 1900	RPM Eng	ine Configur	ation: Te6
Ignition: Co	ompression X	Compre	ssion with G	low Plua	Sr	nark
Fuel Type(s):	: Dedicated	K Flex-Fuel_	Dual-Fue	l Diese		V05
	CNG I	NGLPG	Other (sp	ecify)	- <u></u>	M0J
Diesel Cert E	Fuel: 13 CCR	2282	40 CFR 86.1:	313-90	40 CEP 94	6 1212-04 V
Primary Inter	ded Service	Class: LHD	мнр	нип .	dall X	3. 1313-94 <u>X</u>
Exhaust ECS (include.MFI,	TC, CAC):	PCM (TC.COC)	<u></u>	<u> </u>	an bus
		<u> </u>	(use abbrev:	iations per	SAE J1930 SE	P91)
Engine Model (Eng Code)		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.
M11-330E+ (2036)	340 @ 1800	173 (105)	3095040	3090528 3096662	N/A	N/A
M11-330E+ (2036)	330 @ 1800	170 (103)	3095040	3090528 3096662	N/A	N/A
M11-330 ESP+ (2036)	330 @ 1800	178 (103)	3095040	3090528 3096662	N/A	N/A
M11-320E+ (2036)	320 @ 2100	147 (104)	3095040	3090528 3096662	N/A	N/A
M11-310E+ (2036)	319 @ 1800	163 (99)	3095040	3090528 3096662	N/A	N/A
M11-310E+ (2036)	310 @ 1800	158 (96)	3095040	3090528 3096662	N/A	N/A
M11-280E+ (2036)	288 @ 1800	148 (90)	3095040	3090528 3096662	N/A	N/A
M11-280E+ (2036)	280 @ 1800	145 (88)	3095040	3090528 3096662	N/A	N/A
M11-350E+ (2036)	360 @ 1900	182 (117)	3095040	3090528 3096662	N/A	N/A
M11-310 ESP+ (2036)	310 @ 1800	158 (96)	3095040	3090528 3096662	N/A	N/A
M11-300E+ (2036)	310 @ 1800	158 (96)	3095040	3090528 3096662	n/a	N/A
Date Issued:						
Revisions:				1	1	