State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-21-185

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. 1997 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: Diesel

Engine Family	Liters (Cubic Inches)	Exhaust Emission Control Systems and Special Features
VCE855EJDARC (093U)	14.0	855	Charge Air Cooler Turbocharger Powertrain Control Module

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:

Total Carbon <u>Hydrocarbons</u> <u>Monoxide</u>		Nitrogen <u>Oxides</u>	<u>Particulates</u>
1.3	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	Total	Carbon	Nitrogen	<u>Particulates</u>
<u>Family</u>	<u>Hydrocarbons</u>	<u>Monoxide</u>	Oxides	
VCE855EJDARC (093U)	4 4	2	% ↓ 3	0.09

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 January 1997.

R. B. Summerfield, Chief
Mobile Source Operations Division

Rephal Surrount

E.O. # A-21-185

Page	1	of	2
5		<u> </u>	4

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Cummins E	ngine Company,	Inc.	Engine Fam.	ily (0930) yo	E855EJDARC
Displacement:		/14 Lite			-	ubic Inches
Maximum Rated	l Power:	500	HP @ 1800	RPM Engi	ne Configura	ation: I-6
Ignition: Co	mpression X	_ Compre	ssion with Gl	.ow Plug	Sp	ark
Fuel Type(s):	Dedicated_	X Flex-Fuel_	Dual-Fuel	Diesel	. х м100	M85
	CNG L	NGLPG	Other (spe	cify)		
Diesel Cert F	uel: 13 CCR	2282	40 CFR 86.13	13-90	40 CFR 86	. 1313-94 x
Primary Inten	ded Service	Class: LHD	MHD	нно х	Urba	an Bus
Exhaust ECS (include.MFI,	TC, CAC):	PCM (TC, CAC)		
	· · · · · · · · · · · · · · · · · · ·		(use abbrevi	ations per S	AE J1930 SE	91)
Engine Model (Eng Code)	Rated HP	Fuel Rate @ Rated HP mm3 / stroke (lbs/hr)	Fuel Pump & Injector Part No.		EGR Valve Part No.	PTOX / Catalytic Converter Part No.
N14-500E (1844)	500 @ 1800	279 (169.6)	3083848 3087734 3087558	3084473	N/A	N/A
N14-500E (1844)	483 @ 1800	270 (164.0)	Same	Same	Same	Same
N14-460E (1844)	460 @ 1800	250 (151.8)	Same	Same	Same	Same
N14 ESPIII (1844)	400 글 1800	214 (129.6)	Same	Same	Same	Same
NI4-435E (1844) (1809)	435 @ 1800	234 (141.8)	Same	Same	Same	Same
N14-410E (1844) (1809)	410 3 1800	220 (133.2)	Same	Same	Same	Same
N14-445E (1809)	445 å 1800	241 (146.2)	Same	Same	Same	Same
N14-500E (2003)	500 3 1800	275 (167)	3087788 3095086 3609796	3084473	N/A	N/A
Date Issued:						
Revisions:						

Ξ.Ο.	# A-21-185
I.O.	# M-ZI-185
	"

Page2 of	2
----------	---

1997 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer	Cummins E	Engine Company,	Inc.	Engine Fam	iilw Agan w	
probracement	· i	/ 14 L:	iters		/ 055	~
Maximum Rated	d Power:	500	HP @ 1800	RPM Eng	ina Configur	ubic inches
	ombression Y	Compre	ssion with a	low Plug	_	
Fuel Type(s):	: Dedicated:	✓ Flex-Fuel_	Dual-Fuel	Diago.	SF	eark
	CNG_ I	LPG	Other (spe	brese.	T_Y WIOO_	M85
Diesel Cert B	Fuel: 13 CCR	2282	40 CER 86 13	13-00		
Primary Inter	nded Service	Class: LHD	MUD	13-90	40 CFR 86	6.1313-94 <u>X</u>
Exhaust ECS ((include.MFI,	TC, CAC):	- MAD	_ ннр	<u>urb</u>	an Bus
	,		(use abbrevi	ations per s	SAE J1930 SE	911
Engine Medal		Fuel Rate	Fuel Pump		EGR	PTOX /
Engine Model (Eng Code)	Rated HP	@ Rated HP mm3 / stroke	& Injector Part No.	ECM/PCM	Valve	Catalytic
		(lbs/hr)	PAIC NO.	Part No.	Part No.	Converter Part No.
N14-370E	350 @ 1800	190 (115.2)	3083846			PAIC NO.
(1807)		130 (113.2)	3083846	3084473	N/A	N/A
		Ì	3087560			
N14 ESP II	}		Same	! Same	Same	Ca-a
N14-350E (1807)	350 @ 1800	190 (115.2)			Jame	Same
•						
N14-330E (1807)	330 3 1800	178 (108.2)	Same	Same	Same	Same
N14 ESP I N14-310E	310 @ 1800	167 (101.4)	Same	Same	Same	Same
(1807)	210 6 1900					
N14-390E	370 @ 1800	202				
(1807)	2.0 % 1900	203 (123.1)	Same	Same	Same	Same
N14-350ESP	350 à 1800	200				
(1987)	320 % 1800	186 (113)	3083848 3087734	Same	Same	Same
		}	3087558	ĺ		
N14-400E	370 3 1800	205 (124.2)	3083846	Same	-	
(1807)		(521.2)	3087733	Same	Same	Same
			3087558			
	ĺ				Ì	
					ļ	
	İ			Ì		
				İ		
Date Issued:						
Revisions:	Revisions:					
			<u></u> <u></u>			