State of California AIR RESOURCES BOARD

EXECUTIVE ORDER A-290-47

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

DETROIT DIESEL CORPORATION

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 Detroit Diesel Corporation 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: Diesel

بہرست

Engine Family	Liters	(Cubic Inches)	Exhaust Emission Control Systems and Special Features
TDD12.EJDARA (SERIES-60)	12.7	(775)	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>	Oxides	
TDD12.EJDARA (SERIES-60)	0.1	1.7	4.9	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 November 1995.

R. B. Summerfield

Assistant Division Chief Mobale Source Division

17-TDD12.EJDARA-3A

E.O. No. A-290-47

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

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Manufacturer:	Detroit Diese	l Corporation		Engine Fa	mily: TDD	12.EJDARA
		775 Cubic Inc	ches			
		HP @ 2100 RP		Er	ngine Config	guration: I-6
		Compression			_ `	
igintion. Com	Dodinated Y	_ Flex-Fuel	Dual-Fuel	Diesel X	M100	M85
ruei Type(s):	Dedicated _A	_ riex-ruei	Other (area)	_ Dieser_A_		
	CNG L	NG LPG	Other (speci	.1y)	D 96 1212 ()4 V
Diesel Cert Fu	el: 13 CCR 22	282 40 C	FK 80.1313-90	40 Cr	K 00.1313-;	74 <u>-</u> ^_
		ass: LHD			oan Bus	-
Exhaust ECS ((include. MFI,	TC, CAC): EC	M/PCM, CAC,	(TC)		
		·				
		Fuel Rate	Fuel Pump		EGR	PTOX/
Engine Model	Rated HP	@Rated HP	& Injector	ECM/PCM	Valve	Catalytic
(Eng Code)	@ RPM	mm3/Stroke	Part No.	Part No.	Part No.	Converte
		(lbs/hr)				Part No.
12.7L						
1A	470@2100	220.1	5235575	23513553		
17.	170@2.00	(153.7)				
2A	470@1800	245.8	5235575	23513553		
~		(147.1)				
3A ·	430@2100	200.7	5235575	23513553		
J. 1		(140.2)				
4A	430@1800	224.2	5235575	23513553		
1. 1		(134.2)				
5 A	450@1800	235.4	5235575	23513553		
2.1		(140.9)				
6A	375@1800	195.5	5235575	23513553	•	
5. 2		(117.0)				
7 A	400@1800	208.5	5235575	23513553		
		(124.8)				
8A	360@1800	187.6	5235575	23513553		
		(112.3)				
9 A	370@1800	192.8	5235575	23513553		
7		(115.4)				

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Rev.:

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

Displacement: Maximum Rat Ignition: Con Fuel Type(s): Diesel Cert Fu Primary Intend	ted Power: 500 pression _X_ Dedicated _X CNG L1 pel: 13 CCR 2 ded Service Cl	cl Corporation 775 Cubic Inc. 775 Cubic Inc. 775 Cubic Inc. 776 Cubic Inc. 776 Compression 777 Compression 778 Flex-Fuel 778 LPG 778 40 Compression 788 LPD 778 ACC ECC 778 CACC ECC	M on with Glow P Dual-Fuel Other (speci FR 86.1313-90 MHD	Enlug S Diesel _X_ ify) 40 CF IHD _X_ Ur	ngine Config park M100 R 86.1313-9	94 _X_
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.
12.7L-CONTIN	NUED					
1B	470@2100	220.1 (153.7)	5235575	23513553		
2B	430@2100	200.7 (140.2)	5235575	23513553		
3B	430@1800	224.2 (134.2)	5235575	23513553		
4B	400@2100	186.7 (130.4)	5235575	23513553		
5B	400@1800	208.5 (124.8)	5235575	23513553		
6B	370@2100	172.7 (120.6)	5235575	23513553		
7B	370@1800	192.8 (115.4)	5235575	23513553		
8B	360@1800	187.6 (112.3)	5235575	23513553		
9B	400@1950	196.2 (127.2)	5235575	23513553		
10B	450@1800	235.4	5235575	23513553		
11B	3.75@1800	(140.9) 195.5 (117.0)	52355.75	23513553		

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E.O. No. A-290-47

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

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Manufacturer:	Detroit Diese	l Corporation		Engine Fa	mily: TDD	12.EJDARA
Displacement:	12.7 Liters	775 Cubic Inc	ches	_	-	
•		HP @ 2100 RP		Eı	igine Config	guration: I-6
Ignition: Com	pression X	Compression	on with Glow P	lug S	park	_
_		Flex-Fuel				M85
J F - (-)-	_	NG LPG	-			
Diesel Cert Fu		282 40 C				94 X
		ass: LHD				
-		TC, CAC): EC				~
Emilian 200 (,,	14, 0110). —	,	()		
		Fuel Rate	Fuel Pump		EGR	PTOX/
Engine Model	Rated HP	@Rated HP	•	ECM/PCM	Valve	Catalytic
(Eng Code)		_	Part No.		Part No.	Converter
		(lbs/hr)				Part No.
12.7L-CONTIN	NUED		•			
1C	500@2100	234.8	5235915	23513553		
		(164.0)				
2C	500@1800	258.1	5235915	23513553		
	•	(154.5)				
3C	500@2100	234.8	5235915	23513553		
		(164.0)				

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