#### State of California AIR RESOURCES BOARD

#### EXECUTIVE ORDER A-27-67

Relating to Certification of New Heavy-Duty Motor Vehicle Engines

MACK TRUCKS, 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-45-3;

IT IS ORDERED AND RESOLVED: That the following 1995 model-year Mack Trucks, Inc. diesel-cycle 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		Displacement (Cubic Inches)	Exhaust Emission Control Systems and Special Features
SMK728EGDARA (44)	11.9	(728)	Turbocharger Smoke Puff Limiter Charge Air Cooler

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:

<u>Hydrocarbons</u>	Carbon <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, except that compliance with the carbon monoxide exhaust emission standard has been demonstrated pursuant to Title 40, Code of Federal Regulations, Part 86, Subpart A, Section 86.091-23(c)(2)(i):

Engine <u>Family</u>	<u>Hydrocarbons</u>	Nitrogen <u>Oxides</u>	<u>Particulates</u>
SMK728EGDARA	0.0 (0.01)	4.1	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 17th day of January, 1995.

D. D. Summonfield

Assistant Division Chief Mobile Source Division

### E.O.# A-27-67

# 1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

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		, INC.				
Displacement	: 11.9	<u>/</u> L	iters	8 /	c	ubic Inche
Maximum Rated	d Power:350	HP @ _	1800	RPM Engin	e Configur	ation: $I-6$
		_ Comp				
Fuel Type(s):	: Dedicated	Flex-Fuel	_ Dual-Fuel	Diesel_X	M100_	M85
	CNGLN	GLPG	Other (speci	fy)		
Diesel Cert f	uel: 13 CCR	2282 4	O CFR 86.1313	-90	40 CFR 86.	1313-94 <u>X</u>
		lass: LHD				
Exhaust ECS (	incl. MFI, TC	, CAC):TC	, CAC, SPL, D	Ī		
·	·	, <u>—</u> ———	(use abbrevia	tions per SAE	J1930 SEP	91)
		Fuel Rate	Fuel Pump	1	EGR	PTOX /
Engine Model	Rated HP	@3Rated HP mm3 / stroke	& Injector	ECM/PCM	<b>Valve</b>	Catalytic
(Ĕng Code)	@ RPM	mm / stroke (lbs/hr)	313GC/114GC	Part No.	Part No.	Converter Part No.
E7-350		221.4 (138.6)	5188-P12/325 5212-P12/325	N/A	N/A	N/A
E7-300	300 @ 1950	182.2 (123.6)	5188-P8/325 5212-P8/325		N/A	N/A
			P6 5212-P14/325 P6			
EM7-300	300 @ 1750	193.7 (117.9)	5188-P10/325 P2	N/A	N/A	N/A
			5212-P10/325 P4			
E7-250	250 @ 1950	150.7 (102.2)	5188-P6/325 P3		N/A	N/A
			5212-P6/324A P5		-	
EM7-250	250 @ 1750	161.0 (98.0)	5188-P2/325 P3	N/A	N/A	N/A
			5212-P2/325 P4			
Date Issued:			1			
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# 1995 AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET HEAVY-DUTY DIESEL-STANDARD ENGINES

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Manufacturer	MACK TRUCK	S, INC.	Eng	gine Family	44 (SMK728	BEGDARA)
Displacement	::11.9	/	Liters 72	28 /	C	ubic Inche
Maximum Rate	ed Power: <u>    35</u>	<u>O</u> HP @	1800	RPM Engi	ne Configur	ation: I-6
Ignition: C	Compression X	Com	pression with	Glow Plug	-	Spark
Fuel Type(s)	: Dedicated	Flex-Fuel_	Dual-Fuel	Diesel	<u>—</u> X м100	M85
-	CNG LI	NG LPG	Other (speci	<u></u>		
Diesel Cert	Fuel: 13 CCR	2282	40 CFR 86.1313	1-90	40 CER 86	1313-04 Y
		Class: LHD				
		C, CAC): <u>EM, TC</u>	C. CAC SPL N	T		-
	( ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	<u> </u>	(use abbrevia	tions per SAE	J1930 SEP	91)
	<del></del>	Fuel Pate	Fuel Pump		EGR	PTOX /
Engine Model		02Rated HP	& Injector	ECM/PCM	Valve	Plux /   Catalytic
(Eng Code)	@ RPM	mm <sup>3</sup> / stroke	& Injector Part No 313GC/114GC	Part No.	Part No.	Converter
E7-350	350 @ 1800		5188-P12/325		<u> </u>	1010 1101
			5212-P12/325	l M/W	N/A	N/A
E7-300	300 @ 1950	182.2 (123.6)			N/A	N/A
		]	5212-P8/325			
			P6 5212-P14/325			
			P6			
EM7-300	300 @ 1750	193.7 (117.9)	5188_D10/325	N/A	N/A	A1 / A
		155.7 (117.5)	P2	N/A	11/15	N/A
			5212-P10/325			
			/324AP5 P4			
E7-250	250 @ 1950	150.7 (102.2)		N/A	N/A	N/A
			P3 5212-P6/324A			
			P5			
EM7-250	250 @ 1750	16: 0 (00 0)	5100 80 4005			
EM7-250	250 @ 1750	161.0 (98.0)	5188-P2/325   P3	N/A	N/A	N/A
			5212-P2/325			
EM7-275	275 බ 1750	175.3 (106.7)	P4  5188-P4/325P3	N/A	N1/A	N.1.4.4
LIVI7 - 27 3	273 (4 1730		5212-P4/325P4	IN/A	N/A	N/A
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Date Issued:

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Revisions:	423/95			1	1
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