

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-68

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-45-9;

IT IS ORDERED AND RESOLVED: That the following 1996 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

<u>Engine Family</u>	<u>Engine Displacement Liters (Cubic Inches)</u>		<u>Exhaust Emission Control Systems and Special Features</u>
TMK728EGDARA (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>	<u>Carbon Monoxide</u>	<u>Nitrogen 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):

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
TMK728EGDARA	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.).

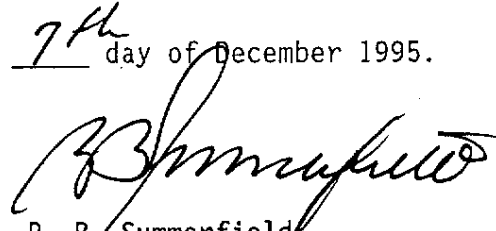
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EXECUTIVE ORDER A-27-68
(Page 2 of 2)

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 7th day of December 1995.



R. B. Summerfield
Assistant Division Chief
Mobile Source Division

E.O.# A-27-68
 199⁶ MODEL-YEAR AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET Page 1
 HEAVY-DUTY DIESEL-STANDARD ENGINES

Manufacturer: MACK TRUCKS, INC. Engine Family: 44 (TMK728EGDARA)
 Displacement: 11.9 / Liters 728 / Cubic Inches
 All Eng Codes in Eng Family: CA 49S 50S X Strokes/Cycle: 4 Valves/Cylinder: 4
 Ignition: Compression X Compression with Glow Plug Spark
 Fuel Type(s): Dedicated X Flex-Fuel Dual-Fuel Bi-Fuel Diesel X CNG
 LNG LPG M85 M100 Other (specify)
 Diesel Cert Fuel: 13 CCR 2282 40 CFR 86.1313-90 40 CFR 86.1313-94 X
 Maximum Rated Power: 350 HP @ 1800 RPM Engine Configuration: I-6
 Exhaust ECS (e.g., OC, EGR, PTOX, IFI, TC, CAC): EM,TC,CAC,SPL,DI-
 (Use abbreviations per SAE J1930 SEP91)

Engine Model (Eng Code)	Rated HP @ RPM	Fuel Rate @ ₃ Rated HP mm ³ / stroke (lbs/hr)	Fuel Pump & Injector Part No. 313GC/114GC	ECM/PCM Part No.	EGR Valve Part No.	PTOX / Catalytic Converter Part No.
E7-350	350 @ 1800	221.4 (138.6)	5188-P12/325 5212-P12/ 325-P6	N/A	N/A	N/A
E7-300	300 @ 1950	182.2 (123.6)	5188-P8/325 5212-P8/ 325-P6 5212-P14/ 325-P6	N/A	N/A	N/A
EM7-300	300 @ 1750	193.7 (117.9)	5188-P10/ 325-P2 5212-P10/ 325-P4	N/A	N/A	N/A
EM7-275	275 @ 1750	175.3 (86.8)	5188-P4/ 325-P3 5212-P4/ 325-P4	N/A	N/A	N/A
E7-250	250 @ 1950	150.7 (102.2)	5188-P6/ 325-P3 5212-P6/ 324A-P5	N/A	N/A	N/A
EM7-250	250 @ 1750	161.0 (80.1)	5188-P2/ 325-P3 5212-P2 325-P4	N/A	N/A	N/A

Date Issued:

Revisions: