

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER A-27-65

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 Mack Trucks, Inc. 1994 model diesel engines are certified for use in motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 8,500 pounds:

Fuel Type: Diesel

<u>Engine Family</u>	<u>Liters (Cubic Inches)</u>	<u>Exhaust Emission Control Systems and Special Features</u>
RMK728EJDARA	11.9 (728)	Turbocharger Charge Air Cooler Smoke Puff Limiter Engine Control Module

Engine models and codes are listed on attachments.

The following are the certification 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 emission values for this engine family in grams per brake horsepower-hour, except that compliance with the carbon monoxide emission standard has been demonstrated pursuant to Title 40, Code of Federal Regulations, Part 86, Subpart A, Section 86.088-23(c)(2)(i):

<u>Engine Family</u>	<u>Hydrocarbons</u>	<u>Nitrogen Oxides</u>	<u>Particulates</u>
RMK728EJDARA	0.0 (0.03)	4.5	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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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 5th day of January, 1994.


R. B. Summerfield
Assistant Division Chief
Mobile Source Division

199⁴ AIR RESOURCES BOARD SUPPLEMENTAL DATA SHEET
HEAVY-DUTY DIESEL ENGINES

Manufacturer MACK TRUCKS, INC. Engine Family 45 (RMK728EJDARA)
 Liters (CID) 11.9 (728) Fuel Type DIESEL Engine Config. I-6
 Exhaust ECS & Special Features (ECM/PCM, PTOX, IFI, etc.) ECM SPL, TG, CAC
 (Use abbreviations per SAE J1930 MAY91)

Engine Model (Eng. Code)	Rated HP @ RPM	Fuel Rate @ Rated HP mm ³ / stroke (lbs/hr)	Fuel Pump & Injector P/N 313GC/114GC	ECM/PCM P/N 1MS	Part. Trap/ Catalyst P/N
E7-454	454 @ 1800	249.3 (156.1)	5205-P1/ 324A-P4	536-P9	N/A
E7-427	427 @ 1800	230.2 (144.1)	5205-P1/ 324A-P4	536-P8	N/A
E7-400	400 @ 1800	214.3 (134.2)	5205-P1/ 324A-P4	536-P7	N/A
E7-375	375 @ 1800	198.5 (124.3)	5205-P1/ 324A-P4	536-P10	N/A
E7-350	350 @ 1800	184.2 (115.3)	5205-P1/ 324A-P3	536-P6 536-P17	N/A
E7-325	325 @ 1800	169.9 (106.4)	5205-P1/ 324A-P3	536-P5 536-P15	N/A
E7-300	300 @ 1800	156.4 (97.9)	5205-P1/ 324A-P5	536-P4 536-P16	N/A
E7-300	300 @ 1700	164.0 (97.0)	5205-P1/ 324A-P5	536-P14	N/A
E7-300					
EM7-300	300 @ 1750	163.0 (99.2)	5205-P1 324A-P5	536-P3	N/A
EM7-275	275 @ 1750	149.8 (91.2)	5205-P1/ 324A-P5	536-P2	N/A
EM7-250	250 @ 1750	137.3 (83.6)	5205-P1/ 324A-P5	536-P1	N/A

Revisions: _____