Pursuant to the authority vested in the Air Resources Board by Health and Safety Code (HSC) Division 26, Part 5, Chapter 2; and pursuant to the authority vested in the undersigned by HSC Sections 39515 and 39516 and Executive Order G-02-003; and

Pursuant to the December 15, 1998 Settlement Agreement between the Air Resources Board and the manufacturer, and any modifications thereof to the Settlement Agreement;

IT IS ORDERED AND RESOLVED: That the engine and emission control systems produced by the manufacturer are certified as described below for use in on-road motor vehicles with a manufacturer's gross vehicle weight rating (GVWR) over 14,000 pounds. Production engines shall be in all material respects the same as those for which certification is granted.

YEAR	ENGINE FAMILY	SIZE (liter)	FUEL TYPE (CNG/LNG=compressed/liquefled natural gas; LPG=liquefled petroleum gas)	& TEST PROCEDURE	INTENDED SERVICE CLASS (L/MH HDD=light/medium/heavy heavy-dut) [HD] diesel; UB=urban bus; HDO=HD Otto)
2002	2MKXH11.9H64	11.9	Diesel	Diesel	HHDD
	AL FEATURES & CONTROL SYSTEMS		ENGINE MODELS / CODES	(rated power in he	orsepower, hp)
DDI, TC, CA	AC, SPL, ECM, EGR		See A	Attachment	

The following are the exhaust emission standards (STD), or family emission limit(s) (FEL) as applicable, and certification levels (CERT) in grams per brake horsepower-hour (g/bhp-hr) for this engine family for hydrocarbon (HC) or non-methane HC (NMHC), oxides of nitrogen (NOx), or NMHC+NOx, carbon monoxide (CO) [except that "diesel" CO certification compliance may have been demonstrated pursuant to Code of Federal Regulations, Title 40, Part 86, Subpart A, Section 86.091-23(c)(2)(i) in lieu of testing], particulate matter (PM), and formaldehyde (HCHO) under the "Federal Test Procedure" (FTP) (Title 13, California Code of Regulations, (13 CCR) Section 1956.1 (urban bus) or 1956.8 (other than urban bus)), and under the "Euro III Test Procedure" (EURO) in the Settlement Agreement, including a EURO's "Not-to-Exceed" NOx standard: (For flexible- and dual-fueled engines, the CERT values in brackets [] are those when tested on conventional test fuel. For multi-fueled engines, the STD and CERT values for default operation permitted in 13 CCR Section 1956.1 or 1956.8 are in parentheses.)

				EURO'S NOT-TO-EXCEED NOX STD										
* = not applicable	HC		NMHC		NOx		NMHC+NOx		CO		PM		НСНО	
	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO	FTP	EURO
(DIRECT) STD	1.3	1.3	•	*	*	•	٠	•	15.5	15.5	0.10	0.10	*	•
AVERAGE STD	*	. *	*	•	4.0	•	•	•			+	*	*	
FEL	*	*	*	*	2.4	2.4	*	•	•	•	+ .	*	*	
CERT	0.1	0.03		*	2.1	2.1	•	*	٠		0.10	0.09		+

BE IT FURTHER RESOLVED: That certification to the FEL(s) listed above, as applicable, is subject to the following terms, limitations and conditions. The FEL(s) is the emission level declared by the manufacturer and serves in lieu of an emission standard for certification purposes in any averaging, banking, or trading (ABT) programs. It will be used for determining compliance of any engine in this family and compliance with such ABT programs.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with 13 CCR Sections 1965 (emission control labels), and 2035 et seq. (emission control warranty).

BE IT FURTHER RESOLVED: That the listed engine models are conditionally certified subject to the following conditions: (1) The Settlement Agreement is in effect; and, (2) The manufacturer is in compliance with all applicable certification requirements of the Settlement Agreement and any modifications thereof.

Engines certified under this Executive Order shall conform to all applicable California emission regulations and all requirements under the Settlement Agreement and any modifications thereof.

The Bureau of Automotive Repair will be notified by copy of this Executive Order.

This Executive Order is not valid for engines produced on or after October 1, 2002.

Executed at El Monte, California on this ______ day of August 2002.

Allend yons, Chief

Mobile Source Operations Division

0100

Mack Trucks, Inc. 53302 Pennskhyggia Avenue ön-nighway KDGgia Avenue

Manufacturer:

2MKXH11.9H64

Engine category: EPA Engine Family. Mfr Family Name: FAMILY 64

New Submission

Process Code:

`	. 1						A.	Hac	lma	mb
8. Fuel Rate: 9. Emission Control (Defin)@Desk torque Davis Dav SAE HOZA	ESMER,TC,CAC.	DDI,SPL,CEGR	2 }	= =	= a	2 % :			•	* * .
8. Fuel Rate: (bs/hr)@peak tom	144.0	144.0	129.7	112.1	115.6	110.6	108.7	107.4	106.4	95.8
7.Fuel Rate: mm/stroke@peak torque	318.5	318.5	286.8		302.1	289.1 "	260.4	280.7	278.1	250.4
6. Torque @ RPM (SEA Gross)	1660 @ 1300	1660 @ 1300	1560 @ 1300	1460 @ 1200	1660 @ 1100	1560 @ 1100	1360 @ 1200	1460 @ 1100	1360 @ 1100	1308 @ 1100
5.Fuel Rate: (bs/hr) @ peak HP (for diesels only)	174.0	167.8	154.2	140.7	133.3	125.1	123.6	118.2	113.6	109.0
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	277.9	268.0	246.3	224.7	212.9	199.8	197.4	188.8	181.4	164.7
3.BHP@RPM (SAE Gross)	480 @ 1800	460 @ 1800 "	427 @ 1800	400 @ 1800	380 @ 1800	355 @ 1800	350 @ 1800 "	330 @ 1800 "	310 @ 1800	300 @ 1900
2.Engine Model	AC-460P	AC-460E E7-460E	AC-427 E7-427	AC-400 E7-400	AC-380/410 E7-380/410	AC-355/380 E7-355/380	AC-350 E7-350	AC-330/350 E7-330/350	AC-310/330 E7-310/330	AMC-300 EM7-300
1.Engine Code 2.Engine Model	٧.	* I	= =	E E	. .	r :		• •	• •	.