

	DAIMLERCHRYSLER AG	EXECUTIVE ORDER U-R-016-0045 New Off-Road Compression-Ignition Engines
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Pursuant to the authority vested in the Air Resources Board by Sections 43013, 43018, 43101, 43102, 43104 and 43105 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 compression-ignition engine and emission control system produced by the manufacturer are certified as described below for use in off-road equipment. Production engines shall be in all material respects the same as those for which certification is granted.

MODEL YEAR	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)
2002	2MBXL21.9R6A	22	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Smoke Puff Limiter			Crane, Compressor and Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbon (HC), oxides of nitrogen (NOx), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) in grams per kilowatt-hour (g/kw-hr), and the opacity-of-smoke certification standards and certification levels in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family (Title 13, California Code of Regulations, (13 CCR) Section 2423):

RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
KW>560	Tier 1	STD	1.3	9.2	N/A	11.4	0.54	20	15	50
		CERT	0.3	8.8	--	1.7	0.38	9	6	14

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the information and materials to demonstrate certification compliance with 13 CCR Section 2424 (emission control labels), and 13 CCR Sections 2425 and 2426 (emission control system warranty).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

This Executive Order is only granted to the engine family and model-year listed above. Engines in this family that are produced for any other model-year are not covered by this Executive Order.

Executed at El Monte, California on this 23RD day of April 2002.



Allen Lyons, Chief
New Vehicle/Engine Programs Branch

LARGE ENGINE MODEL SUMMARY

44R-016-0045

Manufacturer: DaimlerChrysler AG Process Code: New Submission

EPA Engine Family: 2MBXL21.9R6A		Manufacturer Family Name: NA						
1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
444 LA, E I/7	OM 444 LA	758 @ 1900	213	267	2434 @ 1400	233	215	7C, EM, SPL, CAC, DP I (all ratings)
444 LA, E I/8		758 @ 1900	217	272	2360 @ 1500	235	233	
444 LA, E I/9		771 @ 2100	204	282	2434 @ 1400	233	215	
444 LA, E I/10		771 @ 2100	209	290	2360 @ 1500	235	233	
444 LA, E I/11		812 @ 1900	228	286	2581 @ 1400	250	231	
444 LA, E I/12		812 @ 1900	236	296	2581 @ 1500	260	257	
444 LA, E I/13		839 @ 2100	222	308	2581 @ 1400	250	231	
444 LA, E I/14	V	839 @ 2100	230	319	2581 @ 1500	260	257	
			625 kw					