

## DAIMLERCHRYSLER AG

EXECUTIVE ORDER U-R-016-0048 New Off-Road Compression-Ignition Engines

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	2MBXL12.0RJB	12.0	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
Direct Dies	el Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	Loader, Tractor and Indu	strial 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	EMISSION			E	EXHAUST (g/kw-h	ır)		OF	PACITY (%	(a)
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
225 <kw<450< td=""><td>Tier 2</td><td>STD</td><td>N/A</td><td>N/A</td><td>6.4</td><td>3.5</td><td>0.20</td><td>20</td><td>15</td><td>50</td></kw<450<>	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT			5.2	0.5	0.08	9	2	12

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

Manufacturer:	Manufacturer: DaimlerChrysler AG	er AG		Process Code:	Process Code: New Submission	sion	8400-910-V-n
EPA Engine Fam	EPA Engine Family: 2MBXL12.0RJB	0RJB	, m.	Manufacturer	Manufacturer Family Name:	AN	
1.Engine Code	1.Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	4.ruel hate. 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: 9.Emission Control (lbs/ht/)@peak torque Device Per SAE J1930
457LA.E2/1	OM 457LA	449 @ 1800	255	150.7	1489 @ 1200	284	111.7 <b>btt.,</b> TC, ECM, CAC.
457LA.E2/2		422 @ 1800	246	145.1	1489 @ 1200	284	111.7
457LA.E2/3		396 @ 1800	227	134.1	1415 @ 1200	265	104.6
457LA.E2/4		349 @ 1800	200	117.9	1285 @ 1200	241	95.2
457LA.E2/5		325 @ 1800	188	110.9	1175 @ 1200	224	88.2