

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-02-003;

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)
2004	4MBXL12.0RJB	12.0	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Loader, Tractor 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):

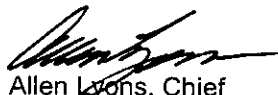
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
225≤KW<450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	--	--	5.2	0.5	0.08	9	2	12

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 December 2003.



Allen Lyons, Chief
 Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

ATTACHMENT 1 OF 1

U-R-016-0061

Manufacturer: DaimlerChrysler AG

Process Code: New Submission

EPA Engine Family: 4MBXL12.0RJB

NA

7.Fuel Rate:
mm/stroke@peak
torque

8.Fuel Rate:
(lbs/hr)/@peak torque
9.Emission Control
Device Per SAE J1930

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
457LA.E2/1	OM 457LA	449 @ 1800	255	150.7	1489 @ 1200	284	111.7	DPF, TC, ECM, CAC
457LA.E2/2	OM 457LA	422 @ 1800	246	145.1	1489 @ 1200	284	111.7	TC, ECM, CAC
457LA.E2/3	OM 457LA	396 @ 1800	227	134.1	1415 @ 1200	265	104.6	TC, ECM, CAC
457LA.E2/4	OM 457LA	349 @ 1800	200	117.9	1285 @ 1200	241	95.2	TC, ECM, CAC
457LA.E2/5	OM 457LA	325 @ 1800	188	110.9	1175 @ 1200	224	88.2	TC, ECM, CAC