

 AIR RESOURCES BOARD	DETROIT DIESEL CORPORATION	EXECUTIVE ORDER U-R-007-00109
		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-02-003;

IT IS ORDERED AND RESOLVED: That the following compression-ignition engines and emission control systems 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)
2007	7DDXL7.20RJA	4.25, 6.37, 7.20	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Engine Control Module, Turbocharger, Charge Air Cooler			Crane, Loader, Tractor, Dozer, Pump, Compressor and Other Industrial Equipment	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) and certification levels (CERT) for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons 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
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
130 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.9	1.4	0.15	14	3	25

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 12th day of March 2007.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Form

ATTACHMENT
 EO# U-R-007-0109

Manufacturer: **Detroit Diesel Corporation**
 Engine category: **Nonroad CI**
 EPA Engine Family: **7DDXL7.20RJA**
 Mfr Family Name: **SERIES 900**
 Process Code: **New Submission**

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
926 LA.E3A/1	OM926LA	322 @ 2200	161	115.1	959 @ 1450	188	88.2	ZI, TC, ECM, CAC
926 LA.E3A/2	V	295 @ 2200	151	107.8	885 @ 1450	175	82.2	(all ratings)
906 LA.E3A/1	OM906LA	275 @ 2200	138	98.8	811 @ 1400	161	73.3	
906 LA.E3A/2	I	255 @ 2200	129	92.2	737 @ 1400	148	67.5	
906 LA.E3A/3	I	228 @ 2200	121	86.6	597 @ 1400	122	55.6	
906 LA.E3A/4	I	201 @ 2200	109	77.9	553 @ 1400	114	51.8	
906 LA.E3A/5	V	174 @ 2200	94	67.4	516 @ 1400	106	68.4	
904 LA.E3A/1	OM904LA	173 @ 2200	131	62.5	498 @ 1400	148	44.9	
904 LA.E3A/2	I	148 @ 2200	111	53.2	428 @ 1400	125	38.0	
904 LA.E3A/3	I	121 @ 2200	92	43.9	347 @ 1400	103	31.3	
904 LA.E3A/4	V	101 @ 2200	78	37.3	295 @ 1400	89	27.1	

