

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)
2009	9SIDL07.4G4D	7.4, 6.6	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module and Smoke Puff Limiter			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
130 ≤ KW < 225	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT	--	--	3.7	0.8	0.17	10	3	35

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 24th day of December 2009.

for

 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

UR-050-0018
12/23/2009

Engine Family	1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	5. Fuel Rate: (bse/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 Devices Per SAE J1930	9. Emission Control
9SIDL07.4G4D	74.383 CTA	235@2200	128	93.9	807@1500	164	82.0	DDI, ECM, SPL, TG, CAC	
9SIDL07.4G4D	74.400 CTA	240@2200	129	94.6	769@1500	148	74.0	DDI, ECM, SPL, TG, CAC	
9SIDL07.4G4D	74.401 CTA	181@2200	98	71.9	546@1500	110	55.0	DDI, ECM, SPL, TG, CAC	
9SIDL07.4G4D	74.410 CTA	210@2200	110	80.7	769@1500	153	76.5	" " " " SPL	
9SIDL07.4G4D	74.420 CTA	240@2200	129	94.6	769@1500	148	74.0	" " " " SPL	
9SIDL07.4G4D	74.421 CTA	222@2200	122	89.5	731@1500	143	71.5	" " " " SPL	
9SIDL07.4G4D	74.422 CTA	222@2200	122	89.5	731@1500	143	71.5	" " " " SPL	
9SIDL07.4G4D	66.405 CTA	192@2200	100	73.3	692@1500	132	66.0	" " " " SPL	
9SIDL07.4G4D	66.409 CTA	188@2200	100	73.3	615@1500	118	59.0	" " " " SPL	
9SIDL07.4G4D	66.418 CTA	192@2200	100	73.3	692@1500	132	66.0	" " " " SPL	
9SIDL07.4G4D	66.414 CTA	192@2500	89	72.7	615@1500	128	64.0	" " " " SPL	
9SIDL07.4G4D	66.428 CTA	192@2200	100	73.3	692@1500	132	66.0	" " " " SPL	
9SIDL07.4G4D	66.439 CTA	182@2200	97	71.1	615@1500	121	60.5	" " " " SPL	
9SIDL07.4G4D	66.462 CTA	192@2200	100	73.3	692@1500	132	66.0	" " " " SPL	
9SIDL07.4G4D	66.468 CTA	208@2000	116	77.3	631@1700	120	68.0	" " " " SPL	
9SIDL07.4G4D	66.471 CTA	188@2200	100	73.3	615@1500	118	59.0	" " " " SPL	
9SIDL07.4G4D	74.469 CTA	247@2000	146	97.3	715@1800	149	89.4	" " " " SPL	
9SIDL07.4G4D	74.490 CTA	222@2200	122	89.5	731@1500	143	71.5	" " " " SPL	
9SIDL07.4G4D	66.516 CTA	192@2200	100	73.3	692@1500	132	66.0	" " " " SPL	
9SIDL07.4G4D	74.569 CTA	240@2200	138	101.6	769@1500	154	77.0	" " " " SPL	
9SIDL07.4G4D	74.581 CTA	222@2200	122	89.5	731@1500	143	71.5	" " " " SPL	