

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)
2011	BSIDL03.3G4B	3.3, 4.4	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Mechanical Direct Injection, Turbocharger, Charge Air Cooler			Tractor and Other 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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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):

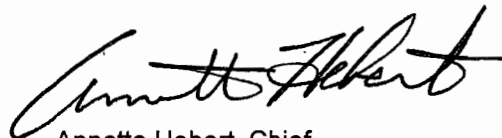
RATED POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
56 ≤ KW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT	--	--	4.1	2.3	0.33	6	5	19

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 27 day of January 2011.



Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

U-R-050-0027
01/10/2011

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: (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
BSIDL03.3G4B		33.509 DTA	99@2200	107	39.2	315@1200	132	26.4	DDI,TC,NA,CAC
BSIDL03.3G4B		33.482 DTA	99@2200	106	38.9	295@1320	124	27.3	DDI,TC,NA,CAC
BSIDL03.3G4B		33.483 DTA	91@2200	96	35.2	277@1320	113	24.9	DDI,TC,NA,CAC
BSIDL03.3G4B		33.484 DTA	79@2200	87	31.9	242@1320	100	22.0	" " NA " "
BSIDL03.3G4B		33.500 DTA	96@2150	106	38.0	292@1290	124	26.7	" " NA " "
BSIDL03.3G4B		33.501 DTA	91@2150	99	35.5	273@1290	116	24.9	" " NA " "
BSIDL03.3G4B		33.502 DTA	78@2150	83	29.7	235@1290	97	20.9	" " NA " "
BSIDL03.3G4B		44.504 DTA	86@2270	66	33.3	258@1360	78	23.6	" " NA " "
BSIDL03.3G4B		44.505 DTA	86@2270	66	33.3	285@1360	85	25.7	" " NA " "
BSIDL03.3G4B		44.506 DTA	99.8@2270	77	38.8	281@1360	83	25.1	" " NA " "
BSIDL03.3G4B		44.507 DTA	99.8@2270	77	38.8	311@1360	95	28.7	" " NA " "
BSIDL03.3G4B		33.485 DTA	68@2200	74	27.1	212@1320	87	19.1	" " NA " "
BSIDL03.3G4B		33.503 DTA	73@2270	80	30.3	215@1360	90	20.4	" " NA " "