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)		
2011	BJDXL06.8101	6.8	Diesel			
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION			
Charge Ai Control	r Cooler, Electronic Direc Module, Smoke Puff Lim Exhaust Gas Recirc	ct Injection, Electronic liter, Turbocharger, ulation	Loaders, Tractor, Dozer, Pump, Compressor, Generator Set, Other Industrial Equipment			

The engine models and codes are attached.

The following are the exhaust certification standards (STD), or family emission limit(s) (FEL) as applicable, 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				EXHAUST (g/kw-		OPACITY (%)			
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
130 ≤ kW < 560	Tier 4 ALT 20% NOx and PM	STD	0.19	2.0	N/A	3.5	0.02	20	15	50
		FEL		3.8			0.19		1	
		CERT	0.03	3.4		0.6	0.11	8	1	14

BE IT FURTHER RESOLVED: That the family emission limit(s) (FEL) is an emission level declared by the manufacturer for use in any averaging, banking and trading program and in lieu of an emission standard for certification. It serves as the applicable emission standard for determining compliance of any engine within this engine family under 13 CCR Sections 2423 and 2427.

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

day of January 2011.

Annette Hebert, Chief

Mobile Source Operations Division

Engine Model Summary Form 12 - 16 - 2010

Nonroad Cl

Engine Family: BJDXL06.8101

Family Name: 350HAA

cess Code:

New Submission

E0#: U-R-004-0427 Attachment page 10f)

ngine 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	
98HF485A	6068H	278.94@2400	126.80@2400	102.74@2400	854.72@1400	170.1@1400	80.47@1400	EM EGR EC	3
68HT062	6068H	202.50@2100	98.50@2100	69.76@2100	618.00@1400	128@1400	60.43@1400	EM EGR EC] 7
68HT061	6068H	189.09@2000	96.00@2000	64.78@2000	593.66@1400	123.3@1400	58.21@1400	EM EGR EC]
38HDW64	6068H	185.07@2200	87.00@2200	64.53@2200	618.00@1400	124.1@1400	58.62@1400	EM EGR EC	
38HRW83	6068H	213.23@2100	104.10@2100	73.64@2100	623.53@1600	120.9@1600	64.16@1600	EM EGR EC] \
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