California Environmental Protection Agency				
	RESOURCES	BOARD		

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)	
2008	8VEXL03.2TCE	3.2	Diesel	8000	
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS		TYPICAL EQUIPMENT APPLICATION			
Direct Diesel Injection, Turbocharger, Smoke Puff Limiter and Exhaust Gas Recirculation			Loader, Tractor, Dozer and Generator Set		

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	EMISSION		EXHAUST (g/kw-hr)			OPACITY (%)				
	CATEGORY	STANDARD CATEGORY	НС	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
56 <u><</u> kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT			4.2	1.3	0.25	9	7	13

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 February 2008.

Annette Hebert, Chief Mobile Source Operations Division

	<u>emplate</u>
AMEN R	Summary T
APACK ACK	tine Model
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2710-510-2-M

	EL V	→
8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930	DD1, EM. SPL. TC, E	🕹 EM. SPL. TC
8.Fuel Rate: (lbs/hr)@peak torq	NA	N/A
7.Fuel Rate: mm/stroke@peak torque	73	73
6.Torque @ RPM (SEA Gross)	229 @ 1250	229 @ 1250
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	N/A	N/A
4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (Ibs/hr) @ peak HP (for diesel only) (for diesels only)	59.7	57.5
3.BHP@RPM (SAE Gross)	79 @ 2300	82 @ 2500
Engine Family 1.Engine Code 2.Engine Model	N/A F5AE5454F*A 79 @ 2300	N/A F5CE5454B*A 82 @ 2500
1.Engine Code	N/A	NA
Engine Family	3VEXL03.2TCE	SVEXLOB.2TOE

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