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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) 8000		
2012	CDZXL06.1007	6.057	Diesel			
	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION			
Cooler, El	Rail Direct Injection, Turb lectronic Control Module, t Gas Recirculation, Perio	Smoke Puff Limiter,	Crane, Loader, Tractor, 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 non-methane hydrocarbon (NMHC), 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		NMHC	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
130 ≤ kW ≤ 560	Interim Tier 4/ ALT NO _x	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		CERT	0.08	1.9		1.3	0.01			

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).

BE IT FURTHER RESOLVED: The listed engine family is conditionally certified pending submission of additional test data to verify compliance with useful-life emission standards. The manufacturer has until January 31, 2012 to provide test data to confirm or correct the certification emissions levels on this conditional certification. Failure to resolve concerns by the specified date, shall be cause for the Executive Officer to rescind this conditional certification and certification would be deemed uncertified and subject to civil penalties pursuant to Health and Safety Code Section 43154.

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 December 2011.

Annette Hebert, Chief Mobile Source Operations Division

Dentz AC	-T		<u>E</u> 1	E0# U-R-013-0412							
Nonroad CI				Attachment		page	1 of	١	11/22/2011		
Engine Family	لا ب 1.Engine Code	2.Engine	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 @	7.Fuel Rate: mm/stroke@pe ak torque	8.Fuel Rate: (lbs/hr) @peak torque	9.Emission Control Device Per SAE J1930		
CDZXL06.1007	C4FI160A	TCD6.1L6	214.5@2300	107	82	900@1450	133	64.2 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI160B	TCD6.1L6	214.5@2200	109.5	80.2	900@1450	133	64.2 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI160C	TCD6.1L6	214.5@2100	112.5	78.7	900@1450	133	64.2 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI160D	TCD6.1L6	214.5@2000	116	77.3	900@1450	133	64.2 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI150	TCD6.1L6	201.1@2300	101	77.4	875@1450	129	62.3 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI150A	TCD6.1L6	201.1@2200	103	75.5	875@1450	129	62.3 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI150B	TCD6.1L6	201.1@2100	106	74.2	875@1450	129	62.3 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI140	TCD6.1L6	187.7@2100	99.5	69.6	825@1450	122	58.9 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		
CDZXL06.1007	C4FI140A	TCD6.1L6	187.7@2000	102.5	68.3	825@1450	122	58.9 DD	I, TC, CAC, ECM, SPL, EGR, PTOX		

PTOX=DPH+DOC