

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)
2013	DH3XL2.22TF4	2.216	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Indirect Diesel Injection, Engine Control Module, Turbocharger, Exhaust Gas Recirculation, Oxidation Catalyst, Periodic Trap Oxidizer			Loader, Tractor, 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37<KW<56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	4.5	1.3	0.002	--	--	--

**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 29<sup>th</sup> day of March 2013.

  
 Annette Hebert, Chief  
 Mobile Source Operations Division

ATTACHMENT 1 OF 1

**Engine Model Summary Template**

U-R-026-0371

3/13/2013

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
DH3XL2.22TF4	EP54/2600	404F-22T	53.6	39.6	22.6	192.0@1800	49.0	19.4	EM, TC, EGR, ECM, IDI PTOX, OC
DH3XL2.22TF4	EP56/2600B	404F-22T	55.7	40.0	22.8	185.0@1800	47.0	18.6	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	EP60/2800	404F-22T	60.0	42.0	25.8	192.0@1800	49.0	19.4	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	EP61/3000	404F-22T	61.0	40.1	26.4	192.0@1800	47.8	18.9	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	EP54/2600	C2.2T	53.6	39.6	22.6	192.0@1800	49.0	19.4	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	EP56/2600B	C2.2T	55.7	40.0	22.8	185.0@1800	47.0	18.6	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	EP60/2800	C2.2T	60.0	42.0	25.8	192.0@1800	49.0	19.4	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	EP61/3000	C2.2T	61.0	40.1	26.4	192.0@1800	47.8	18.9	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	4T41-26B	N844LT-F	55.0	40.5	23.1	180.7@1800	46.7	18.5	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	4T43-26B	N844LT-F	57.3	40.4	23.1	192.0@1600	46.0	16.2	EM, TC, EGR, ECM, PTOX, OC
DH3XL2.22TF4	4T43-28	N844LT-F	58.2	39.9	24.5	186.0@1800	46.1	18.2	EM, TC, EGR, ECM, PTOX, OC