

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)
2013	DCPXL09.3HTF	9.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Oxidation Catalyst, Engine Control Module, Exhaust Gas Recirculation, Periodic Trap Oxidizer, Selective Catalytic Reduction-Urea, Ammonia Oxidation Catalyst			Loader, Tractor, Agricultural Combine, Scraper, Excavator, Motor Grader	

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 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
130 ≤ kW ≤ 560	Interim Tier 4 ALT NOx	STD	0.19	2.0	N/A	3.5	0.02	N/A	N/A	N/A
		FEL	N/A	0.4	N/A	N/A	N/A	N/A	N/A	N/A
		CERT	0.02	0.1	--	0.01	0.01	--	--	--

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 11th day of March 2013.

Annette Hebert
 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

U-R-00476

R/C 10/24/2013

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
DCPXL09.3HTF	Cert Test 1	C9.3	325@1800	192	116.3	1260@1200	243	98.1	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	1	C9.3	268@2150	138	99.8	881@1400	172	81.0	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	2	C9.3	299@2200	149	110	1006@1400	188	88.5	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	3	C9.3	325@2200	162	119.9	1090@1400	207	97.5	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	4	C9.3	349@2200	176	130.2	1174@1400	224	105.5	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	5	C9.3	388@2200	193	142.8	1269@1400	241	113.5	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	6	C9.3	232@2000	129	86.8	850@1000	166	55.8	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	6A	C9.3	232@2000	129	86.8	850@1000	166	55.8	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	7	C9.3	253@2000	139	93.5	930@1000	183	61.6	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	7A	C9.3	253@2000	139	93.5	930@1000	183	61.6	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	7B	C9.3	253@2000	139	93.5	930@1000	183	61.6	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	8	C9.3	274@2000	146	98.2	1010@1000	197	66.3	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	8A	C9.3	274@2000	146	98.2	1010@1000	197	66.3	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	9	C9.3	295@2200	156	105	1090@1000	212	71.3	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	10	C9.3	296@2200	154	114	1166@1200	220	88.8	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	11	C9.3	299@2000	157	116.2	1261@1200	239	96.5	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	12	C9.3	303@2050	160	110	1263@1200	244	99	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	13	C9.3	314@1800	183	111	1154@1300	221	97	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	14	C9.3	221@2000	124	83	1022@1100	201	74	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	14A	C9.3	221@2000	124	83	1022@1100	201	74	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX

ATTACHMENT 2 of 2

Engine Model Summary Template

U-2-001-0476

R/C 11/24/2013

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
DCPXL09.3HTF	15	C9.3	311@1800	182	110	1029@1400	199	94	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX
DCPXL09.3HTF	15A	C9.3	311@1800	182	110	1029@1400	199	94	DFI,TC,ECM,CAC,EGR,I OC,SCR-U,AMOX