

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	DCPXL12.5ESJ	12.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Electronic Direct Injection, Turbocharger, Charge Air Cooler, Smoke Puff Limiter, Engine Control Module			Motor Grader, Excavator	

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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
$130 \leq kW \leq 560$	Interim Tier 4/ ALT 20% NOx + NMHC, ALT 20% PM	STD	N/A	N/A	2.1	3.5	0.02	20	15	50
		FEL	N/A	N/A	4.0	N/A	0.20	N/A	N/A	N/A
		CERT	--	--	3.7	2.7	0.16	15	4	25

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.

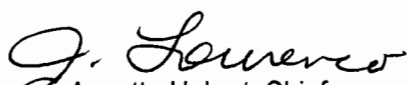
BE IT FURTHER RESOLVED: That the listed engines are conditionally certified to the Interim Tier 4 ALT NOx+NMHC standards based on the amendments to 13 CCR Section 2423, table 1b adopted by the Board on December 16, 2011. This determination is conditional on the amendments being approved by the Office of Administrative Law. If the amendments do not become effective, the manufacturer shall be required to certify this engine family pursuant to table 1b of 13 CCR Section 2423, as that table existed on December 16, 2011 within 45 days after notification by ARB or this Executive Order may be revoked and voided ab initio.

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 15th day of November 2012.


 Annette Hebert, Chief
 Mobile Source Operations Division

Engine Model Summary Template

WR-001-0472

10/29/2012

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
DCPXL12.5ESJ	Cert Test 1	C13	480@2000	250	168	1735@1400	339	160	EM,DI,TC,ECM,CAC,S
DCPXL12.5ESJ	1	C13	345@1800	196	119	1207@1400	233	110	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	2	C13	371@1800	213	129	1300@1400	253	119	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	3	C13	440@1800	249	151	1483@1400	292	138	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	4	C13	371@1800	209	127	1300@1400	246	116	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	5	C13	409@1800	223	135	1294@1400	259	122	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	6	C13	304@2000	161	108	1148@1000	221	74	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	7	C13	310@2000	163	110	1167@1000	224	75	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	8	C13	314@2000	166	112	1187@1000	229	77	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	9	C13	319@2000	167	113	1207@1000	232	78	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	10	C13	325@2000	168	113	1226@1000	236	79	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	11	C13	330@2000	170	114	1245@1000	239	80	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	12	C13	334@2000	174	117	1265@1000	243	82	EM,DI,TC,ECM,CAC
DCPXL12.5ESJ	13	C13	339@2000	175	118	1285@1000	253	85	EM,DI,TC,ECM,CAC