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	DDICL02.4LDA	2.392	Diesel	8,000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Electronic Direct Injection, Turbocharger, Charge Air Cooler (Some Models), Electronic Control Module, Exhaust Gas Recirculation, Diesel Oxidation Catalyst, Periodic Trap Oxidizer	Loader, Compressor, 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kW-hr)					OPACITY (%)		
			NMHC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW ≤ 56	Tier 4 Final	STD	N/A	N/A	4.7	5.0	0.03	N/A	N/A	N/A
		CERT	--	--	3.6	0.1	0.002	--	--	--

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has complied with the more stringent set of standards from the various power categories in conformance with Section 1039.230 (e) of the "California Exhaust Emission Standards and Test Procedures for 2008 and Later Tier 4 Off-Road Compression-Ignition Engines, Part I-C" adopted October 20, 2005.

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.

This Executive Order hereby supersedes Executive Order U-R-019-0122 dated June 22, 2012.

Executed at El Monte, California on this 12th day of July 2012.

J. Lourenco

Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Template

ATTACHMENT 1 OF 1

U-R-019-0122-1
07/02/12

Engine Family	1.Engine Code	2.Engine Model	3.kW@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak kW (for diesel only)	5.Fuel Rate: (kg/hr) @ peak kW (for diesels only)	6.Torque Nm@ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque	8.Fuel Rate: (kg/hr)@peak torque	9.Emission Control Device Per SAE J1930
DDICL02.4LDA	DL02-LDL00	D24WAP	55.4@2600	47.9	12.6	280@1600	62.3	10.0	EGR,DOC,DPF,~~DID~~,TC,CAC,ECM
DDICL02.4LDA	DL02-LDL01	D24WAP	55.2@2600	47.7	12.5	275@1600	61.0	9.8	EGR,DOC,DPF,~~DID~~,TC,CAC,ECM
DDICL02.4LDA	DL02-LDL02	D24WAP	49.2@2600	43.1	11.3	220@1400	49.5	7.0	EGR,DOC,DPF,~~DID~~,TC,CAC,ECM
DDICL02.4LDA	DL02-LDL03	D24WAP	45.5@2600	40.1	10.5	200@1400	45.0	6.3	EGR,DOC,DPF,~~DID~~,TC,CAC,ECM
DDICL02.4LDA	DL02-LDF00	D24WAP	45.6@2200	45.1	10.0	262@1600	57.6	9.3	EGR,DOC,DPF,~~DID~~,TC,CAC,ECM
DDICL02.4LDA	DL02-LDU00	D24WTP	45.5@2600	40.4	10.6	200@1400	47.6	6.7	EGR,DOC,DPF,~~DID~~,TC,ECM
DDICL02.4LDA	DL02-LDL05	D24WTP	45.5@2600	40.4	10.6	200@1400	47.6	6.7	EGR,DOC,DPF,~~DID~~,TC,ECM
DDICL02.4LDA	DL02-LDL04	D24WTP	36.6@2600	34.5	9.0	150@1400	35.9	5.1	EGR,DOC,DPF,~~DID~~,TC,ECM
DDICL02.4LDA	DL02-LDE00	D24WTP	36.6@2200	38.6	8.6	205@1600	47.3	7.6	EGR,DOC,DPF,~~DID~~,TC,ECM
DDICL02.4LDA	DL02-LDE01	D24WTP	31.3@2200	33.8	7.5	150@1600	35.9	5.8	EGR,DOC,DPF,~~DID~~,TC,ECM
DDICL02.4LDA	DL02-LDF01	D24WTP	33.1@2400	33.2	8.0	156@1600	37.3	6.0	EGR,DOC,DPF,~~DID~~,TC,ECM