

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)
2008	8ICLL1.50C3D	1.498	Diesel	5000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
	Indirect Diesel Inje	ection	Tractor	

The engine models and codes are attached.

The following are the exhaust certification standards (STD) 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	EMISSION			E	XHAUST (g/kw-	1r)		OF	ACITY (%	5)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	co	PM	ACCEL	LUG	PEAK
19 <u>&lt;</u> KW<37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
	T	CERT			6.0	1.5	0.24	6	9	9

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

Annette Hebert, Chief

Mobile Source Operations Division

day of January 2008.

## **Engine Model Summary Template**

## ATTACHMENT 1 OF 1

4-R-038-0084

Engine Family	Engine Family 1.Engine Code	2.Engine Model	3.BHP@RPM (SAE Gross)	4.Fuei 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	8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930	
8ICLL1,50C3D	N/A	E3CD	34.0@2800	33.1@34.0	15.0@34.0	72.8@1600	36.1@72.8	9.4@72.8	4	
8ICLL1.50C3D	N/A	E3CD	30.3@2500	30.7@30.3	12.9@30.3	71.4@1800	34.1@71.4	10.3@71.4	<u>u</u>	
8ICLL1,50C3D	AN	E3CD	33.0@2600	32.2@33.0	14.1@33.0	72.0@1560	33.7@72.0	8.8@72.0	<del>                                    </del>	A. Law over the consequence of the consequence of
8ICLL1.50C3D	N/A	E3CD	32.4@2600	33.0@32.4	14.0@32.4	69.2@1560	33.4@69.2	8.5@69.2	Ħ	
BICLL1.50C3D	N/A	E3CDG	32.4@2600	33.0@32.4	14.0@32.4	69.2@1560	33.4@69.2	8.5@69.2	IH	de la company de
8ICLL1.50C3D	N/A	E3CD	28.0@2500	29.5@28.0	11.9@28.0	67.1@1500	31.6@67.1	7.6@67.1	<b>–</b>	
8ICLL1.50C3D	N/A	E3CD	30.4@2500	32.1@30.4	13.0@30.4	72.8@1500	33.6@72.8	8.1@72.8		d upper to demonstration was a very good ordered which
8ICLL1.50C3D	N/A	E3CD	28.4@2500	29.2@28.4	11.8@28.4	68.3@1500	32.2@68.3	7.8@68.3	<b>  F</b>	ANT COMMAND AND ANY OF PROPERTY AND ANY WARRANT AND ANY OF PROPERTY AND ANY OFFICE AND ANY OFFIC
8ICLL1.50C3D	N/A	E3CD	27.2@2500	28.4@27.2	11.5@27.2	65.6@1600	31.5@65.6	8.1@65.6	HARMAN POWER OF THE PROPERTY O	A THE STREET AND A
8ICLL1.50C3D	ΑΝ	E3CD	27.5@2500	28.1@27.5	11.4@27.5	62.5@1600	30.6@62.5	8.0@62.5	IFI	THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER.
8ICLL1.50C3D	N/A	E3CD	26.0@2500	26.6@26.0	10.8@26.0	61.3@1600	29.1@61.3	7.6@61.3	FI	e pala diservacion sense e persona persona quanto dell'altra di telescone
8ICLL1.50C3D	N/A	E3CD	31.1@2800	29.7@31.1	13.5@31.1	70.1@1950	33.1@70.1	10.5@70.1	FI	
8ICLL1,50C3D	N/A	E3CD	25.6@2800	24.6@25.6	11.2@25.6	56.1@2100	26.7@56.1	9.1@56.1	H	ACCOUNTS OF THE PARTY OF THE PA
81CLL1.50C3D	N/A	E3CD	31.4@3000	28.8@31.4	14.1@31.4	69.4@2000	34.5@69.4	11.2@69.4	Ч	
8ICLL1.50C3D	N/A	E3CD	30.6@3000	28.1@30.6	13.7@30.6	67.9@2000	33.7@67.9	11.0@67.9	FI	1000
8ICLL 1.50C3D	N/A	E3CD	26.5@3000	25.2@26.5	12.3@26.5	61.9@2000	29.1@61.9	9.5@61.9	H	A Company of the Comp