



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)
2010	ADCLL02.2D87	1.647, 2.197	Diesel	5000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Indirect Diesel Injection			Tractor	

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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
19 ≤ kW < 37	Tier 4 Interim	STD	N/A	N/A	7.5	5.5	0.30	20	15	50
		CERT	--	--	6.5	1.0	0.21	5	4	7

**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 22<sup>nd</sup> day of March 2010.

Annette Hebert, Chief  
Mobile Source Operations Division

Date: 5/5/2010

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**Engine Model Summary Template**

U-R-044-0076

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
ADCLL02.2D87	3A165	3A165	34.2@2600	34.9	15.03	78.2@1700	38.7	10.91	EM, IDI
ADCLL02.2D87	3A165LWM	3A165	34.2@2600	34.9	15.03	78.2@1700	38.7	10.91	EM, IDI
ADCLL02.2D87	3A165LWH	3A165	34.2@2600	34.9	15.03	78.2@1700	38.7	10.91	EM, IDI
ADCLL02.2D87	3A165LWS	3A165	34.2@2600	34.9	15.03	78.2@1700	38.7	10.91	EM, IDI
ADCLL02.2D87	3A165LWB	3A165	34.2@2600	34.9	15.03	78.2@1700	38.7	10.91	EM, IDI
ADCLL02.2D87	3A165LW-DY	3A165	34@2700	34.2	14.73	78.2@1700	38.7	10.91	EM, IDI
ADCLL02.2D87	4A220	4A220	45.2@2600	33.8	19.42	104.9@1700	37.3	14.02	EM, IDI
ADCLL02.2D87	4A220LWB	4A220	45.2@2600	33.8	19.42	104.9@1700	37.3	14.02	EM, IDI
ADCLL02.2D87	4A220LWM	4A220	45.2@2600	33.8	19.42	104.9@1700	37.3	14.02	EM, IDI
ADCLL02.2D87	4A220LWH	4A220	45.2@2600	33.8	19.42	104.9@1700	37.3	14.02	EM, IDI
ADCLL02.2D87	4A220LWS	4A220	45.2@2600	33.8	19.42	104.9@1700	37.3	14.02	EM, IDI
ADCLL02.2D87	4A220LW-DY	4A220	45.2@2600	33.8	19.42	104.9@1700	37.3	14.02	EM, IDI
ADCLL02.2D87	4A220LWE	4A220	45.2@2600	33.8	19.42	104.9@1700	37.3	14.02	EM, IDI