



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	ACEXL050.AAA	38.0, 50.0	Diesel	8000
<b>SPECIAL FEATURES &amp; EMISSION CONTROL SYSTEMS</b>			<b>TYPICAL EQUIPMENT APPLICATION</b>	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module			Haul Truck and 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 (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
kW > 560	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		FEL	N/A	N/A	9.8	N/A	N/A	N/A	N/A	N/A
		CERT	--	--	8.8	2.5	0.23	14	6	24

**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 31 day of July 2009.

Annette Hebert, Chief  
Mobile Source Operations Division

# Engine Model Summary Template

U-12-002-0538  
Attachment  
7/2/2009

Engine Family	1. Engine Code	2. Engine Model	4. Fuel Rate:		5. Fuel Rate:		7. Fuel Rate:		8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
			3. BHP@RPM (SAE Gross)	mm/stroke @ peak HP (for diesel only)	mm/stroke @ peak HP (for diesels only)	6. Torque @ RPM (SEA Gross)	mm/stroke@peak torque			
ACEXL050.AAA	2913:FR6356	KTA50-C	2000@1900	383	654	5800@1500	399	538	DDI,EM,TC, CAR	
ACEXL050.AAA	2914:FR6357	KTA50-C	2000@1900	383	654	5800@1500	399	538	DDI,EM,TC,	
ACEXL050.AAA	2936:FR6365	KTA38-C	1450@1900	392	502	4127@1400	391	369	DDI,EM,TC,	
ACEXL050.AAA	2936:FR6367	KTA38-C	1260@1800	359	436	3767@1400	360	340	DDI,EM,TC,	
ACEXL050.AAA	2936:FR6373	KTA38-C	1350@1900	370	474	4127@1400	391	369	DDI,EM,TC,	
ACEXL050.AAA	2937:FR6366	KTA38-C	1450@1900	392	502	4127@1400	391	369	DDI,EM,TC,	
ACEXL050.AAA	2937:FR6368	KTA38-C	1260@1800	359	436	3767@1400	360	340	DDI,EM,TC,	
ACEXL050.AAA	2937:FR6374	KTA38-C	1350@1900	370	474	4127@1400	391	369	DDI,EM,TC,	
ACEXL050.AAA	2913:FR6356	KTA50-C	2000@1900	383	654	5800@1500	399	538	DDI,EM,TC,	
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