



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)
2005	5VEXL10.3CRS	10.3	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Electronic Control Module			Harvester, Combine	

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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
130 ≤ kW < 225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
225 ≤ kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	--	--	6.1	0.8	0.13	8	1	13

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 10TH day of May 2005.

Allen Lyons, Chief
Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

Process Code: New Submission

Manufacturer: IVECO N. V.

EPA Engine Family: 5VEXL10.3CRS

Manufacturer Family Name: NA

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm ³ /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 ³ /stroke@peak torque	8. Fuel Rate: (lbs/hr)@peak torque	9. Emission Control Device Per SAE J1930
F3AE0684D*B001	F3AE0684	449@2100	227	NA	1406@1380	270	NA	DDI, TC, CAC, ECM
F3AE0684G*B001	F3AE0684	395@2100	196	NA	1272@1380	243	NA	DDI, TC, CAC,
F3AE0684E*B002	F3AE0684	355@2100	183	NA	1225@1340	240	NA	DDI, TC, CAC,
F3AE0684D*B003	F3AE0684	449@2100	227	NA	1406@1380	270	NA	DDI, TC, CAC,
F3AE0684G*B003	F3AE0684	395@2100	196	NA	1272@1380	243	NA	DDI, TC, CAC,
F3AE0684G*B004	F3AE0684	395@2100	196	NA	1406@1380	270	NA	DDI, TC, CAC,
F3AE0684D*B005	F3AE0684	449@2100	227	NA	1225@1340	240	NA	DDI, TC, CAC,
F3AE0684E*B006	F3AE0684	355@2100	183	NA	1406@1380	270	NA	DDI, TC, CAC,
F3AE0684J*B902	F3AE0684	449@2100	227	NA	1225@1340	240	NA	DDI, TC, CAC,
F3AE0684K*B005	F3AE0684	355@2100	183	NA	1406@1380	270	NA	DDI, TC, CAC,
F3AE0684D*B102	F3AE0684	449@2100	227	NA	1406@1380	270	NA	DDI, TC, CAC,
F3AE0684M*B903	F3AE0684	419@2100	217	NA	1750@1100	255	NA	DDI, TC, CAC,
F3AE0687A*B301	F3AE0687	295@2100	198	NA	1660@1100	239	NA	DDI, TC, CAC,
F3AE0687B*B301	F3AE0687	280@2100	186	NA	1570@1100	226	NA	DDI, TC, CAC,
F3AE0687C*B301	F3AE0687	187@1900	187	NA				

