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)	
2004	4VEXL12.9CRS	12.9	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	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)				OPACITY (%)			
POWER CLASS			нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
225 <u>≤</u> kW < 450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT			6.1	0.6	0.11	9	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 ______ day of March 2004.

Allen Lyons, Chief Mobile Source Operations Division

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95-6-612-5026

3/1/04

Manufacturer: IVECO N. V.

Process Code: New Submission

	Vstroke@peak 8.ruel Hate: 9.Emission Control torque (Ibs/hr)@peak torque Device Per SAE J1930	NA TC, DDI, TC, CAC,	NA DDI, TC, CAC,	NA DDI, TC, CAC,	NA (,' DDI, TC, CAC,	
NA 7.Fuel Rate:	mm/stroke@peak torque	315	275	315	275	
⁻ amily Name: 6.Torque @ RPM	(SEA Gross)	1637@1340	1458@1340	1637@1340	1458@1340	
	ak HP (Ibs/hr) @ peak HP (SEA Gross) hy) (for diesels only)	NA	NA	NA	NA	
4. Fuet Rate:	mm/stroke @ peak HP (for diesel only)	241	213	241	213	
9CRS	3.BHP@RPM (SAE Gross)	474@2100	422@2100	474@2100	422@2100	
y: 4VEXL12.9CRS	2.Engine Model	F3BE0684	F3BE0684	F3BE0684	F3BE0684	
EPA Engine Family:	3.BHP@RPM mm/stroke@pe 1.Engine Code 2.Engine Model (SAE Gross) (for diesel on	F3BE0684E*B001	F3BE0684A*B001	F3BE0684E*B002	F3BE0684A*B003	