California Environmental Protection Agency		EXECUTIVE ORDER U-R-015-0055
AIR RESOURCES BOARD	IVECO N.V.	New Off-Road Compression-Ignition Engines

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		DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)				
2004	4VEXL10.3CRS	10.3	Diesel	8000				
SPECIAL	FEATURES & EMISSION		TYPICAL EQUIPMENT APPLICATION					
Direct Dies	el Injection, Turbocharge Electronic Control N	er, Charge Air Cooler, Iodule	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			E	EXHAUST (g/kw-l		OPACITY (%)			
	CATEGORY		нс	NOx	NMHC+NOx	со	PM	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	0.8	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 25^{TH} day of March 2004.

Allen Lyons, Chief Mobile Source Operations Division

LARGE ENGINE MODEL SUMMARY

N-6-012-0055

1/19/04

Manufacturer: IVECO N. V.

Process Code: New Submission

	8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930	VA $\overline{\mathcal{U}}_{M_1}$ DDI, TC, CAC,	NA DDI, TC, CAC,			, DDI	'IDD	NA DDI, TC, CAC,	'IDD	, IDD	DDI	, DDI,	NA DDI, TC, CAC,	NA DDI, TC, CAC,	VA DDI, TC, CAC,	NA / DDI, TC, CAC,
		2	2	2	2	4	4	4	2	2	<u>ک</u>	2	2	2	~	4 .
NA	7.Fuel Hate: mm/stroke@peak lorque	270	243	240	270	243	243	270	240	270	240	270	270	255	239	226
Family Name:	6. I orque @ HPM (SEA Gross)	1406@1380	1272@1380	1225@1340	1406@1380	1272@1380	1272@1380	1406@1380	1225@1340	1406@1380	1225@1340	1406@1380	1406@1380	1750@1100	1660@1100	1570@1100
Manufacturer Family Name:	5.ruei Hate: (lbs/hr) @ peak HP (for diesels only)	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
d Fitel Rate.	for diesel only	227	196	183	227	196	196	227	183	227	183	227	217	198	186	187
3CRS	3.BHP@RPM (SAE Gross)	449@2100	395@2100	355@2100	449@2100	395@2100	395@2100	449@2100	355@2100	449@2100	355@2100	449@2100	419@2100	295@2100	280@2100	187@1900
lly: 4VEXL10.3CRS	2.Engine Model	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0687	F3AE0687	F3AE0687
EPA Engine Family:	de	F3AE0684D*B001	F3AE0684G*B001	F3AE0684E*B002	F3AE0684D*B003	F3AE0684G*B003	F3AE0684G*B004	F3AE0684D*B005	F3AE0684E*B006	F3AE0684J*B902	F3AE0684K*B005	F3AE0684D*B102	F3AE0684M*B903	F3AE0687A*B301	F3AE0687B'B301	F3AE0687C*B301

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