IVECO N.V.

EXECUTIVE ORDER U-R-015-0034 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	ENGINE FAMILY	DISPLACEMENT (liters)	FUEL TYPE	USEFUL LIFE (hours)			
2002	2VEXL10.3CRS	10.3	Diesel				
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION				
Direct Dies	el Injection, Turbocharge Electronic Control M	er, Charge Air Cooler, lodule	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	EMISSION STANDARD				EXHAUST (g/kw-l		OPACITY (%)			
CLASS	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 ______ day of June 2002.

Allen Lyons, Chief

Mobile Source Operations Division

Engine Model Summary Form ATTACHMENT Pg 1 of 1

Engine category: Nonroad Cl EPA Engine Family: 2VEXL10.3CRS IVECO N.V. Manufacturer:

Mfr Family Name: NA

Process Code: New Submission

	প্র		ja,			Na bi	100	nor Sid	. Physical Co	(Britis	3 GH.	(#.) X4.)
9. Emission Control Device Per SAE J1930	DOL TC, CAC, Edg			,	A A N	and the state of t						
8.Fuel Rate: (lbs/hr)@peak torque [NA DE	NA	NA	NA	NA							
/.Fuel Kate: mm/stroke@peak torque	270	243	240	270	243							
6.Torque @ RPM (SEA Gross)	1406@1380	1272@1380	1225@1340	1406@1380	1272@1380							
o.ruel rate: (lbs/hr) @ peak HP (for diesels only)	NA	MA	NA.	NA	NA							
4.ruel rate: mm/stroke @ peak HP (for diesel only)	227	196	183	227	196							
3.BHP@RPM (SAE Gross)	449@2100	395@2100	355@2100	449@2100	395@2100							
2.Engine Model	F3AE0684	F3AE0684	F3AE0684	F3AE0684	F3AE0684							
1.Engine Code 2.Engine Model	F3AE0684D*B	:3AE0684G*B	F3AE0684E*B	=3AE0684D*B	-3AE0684G*B							