## IVECO N.V.

EXECUTIVE ORDER U-R-015-0148 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)
2008	8VEXL12.9MLR	12.9	Diesel	8000
	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APP	LICATION
Direct Dies	sel Injection, Turbocharg Engine Control Mo	er, Charge Air Cooler, odule	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			E	XHAUST (g/kw-l	nr)		OF	ACITY (%	•)
CLASS	CATEGORY		нс	NOx	NMHC+NOx	СО	PM	ACCEL	LUG	PEAK
225 ≤ kW < 450	Tier 3	STD	N/A	N/A	4.0	3.5	0.20	20	15	50
		CERT			3.8	0.7	0.09	8	4	12

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 February 2008.

Annette Hebert, Chief

Mobile Source Operations Division

## Engine Model Summary Template

Engine Family	1.Engine Code	3.внр@крм Engine Family 1.Engine Code 2.Engine Model (SAE Gross)	3.BHP@RPM (SAE Gross)	4.Fuel Rate: 5.Fuel Rate: mm/stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM (for diesels only) (SEA Gross)	5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque (	8.Fuel Rate: (lbs/hr)@peak torque	9.Emission Control Device Per SAE J1930
SVEXL12 9MLF F3B	3VEX1129MUR F3BE9681A*E F3BE9681	F3BE9681	532 @ 1900	253	ΑN	2350 @ 1400	351	ΑN	DDI, TC, CAC, ECM
SVEXL 12.9MLR	R F3BE96818*E F3BE9681	F3BE9681	494 @ 1900	224	ΑN	2200 @ 1400	246	ΨZ	DDI, TC, CAC, ECM
3VEXL12.9MLR	F3BE9681C*E F3BE9681	F3BE9681	449 @ 2100	203	ΑN	2000 @ 1400	246	ΨZ	DDI, TC, CAC, ECM
SVEXUIZ.9MLR		F3BE9681	405 @ 2100	182	AN	1850 @ 1400	228	A N	DDI, TC, CAC, ECM

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