IVECO N.V.

EXECUTIVE ORDER U-R-015-0131 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	8VEXL04.5DTD	4.5	Diesel	8000
	FEATURES & EMISSION		TYPICAL EQUIPMENT	APPLICATION
Direct Dies	el Injection, Turbocharge and Exhaust Gas Rec	er, Smoke Puff Limiter irculation	Loader, Tractor, Dozer	and Generator

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	.,			XHAUST (g/kw-l	nr)		OF	PACITY (%	b)
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
56 ≤ kW < 75	Tier 3	STD	N/A	N/A	4.7	5.0	0.40	20	15	50
		CERT			4.3	1.4	0.33	14	10	20

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 27th day of December 2007.

Annette Hebert, Chief

Mobile Source Operations Division

Raphael Sussourt

U-R-015-0131

Engine Family	1.Engine Code	3.BHP@RPM Engine Family 1.Engine Code 2.Engine Model (SAE Gross)	3.BHP@RPM (SAE Gross)	4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	4.Fuel Rate: 5.Fuel Rate: stroke @ peak HP (lbs/hr) @ peak HP 6.Torque @ RPM (for diesel only) (sEA Gross)	6.Torque @ RPM (SEA Gross)	7.Fuel Rate: mm/stroke@peak torque		8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torqueDevice Per SAE J1930
8VEXL04,5DTD	en de 1000 (et et en	F4GE9455A*J 93 @ 1800	93 @ 1800	88	N/A	270 @ 1800	•	N/A A/N	DOM, EM. SPL. TC. EGIR
8VEXL04,5DTD	\$	F4GE9455B*J 79@1800	79 @ 1800	76	N/A	231 @ 1800		N/A	EM. SPL. TC.
8VEXL04.5DTD	445T/MMM	F4CE9454H*J/ F4GE9454H*J	99 @ 2200	88.2	N/A	302 @ 1400	110	N/A	EM. SPL. TC.
8VEXL04.5DTD	445T/MMG	F4GE9454K*J	84 @ 2200	76	N/A	273 @ 1320	100	N/A	EM. SPL. TC.
8VEXL04.5DTD	N/A	F4GE9454J*J	89 @ 2200	78	N/A	288 @ 1320	102	N/A	EM. SPL. TC.
8VEXL04.5DTD	445T/MMC	F4GE9454C*J/ F4CE9454C*J	90 @ 2300	74	N/A	284 @ 1380	95	N A/N	/ EM. SPL. TC. V