 AIR RESOURCES BOARD	IVECO N.V.	EXECUTIVE ORDER U-R-015-0120 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)
2007	7VEXL04.5DCA	4.5	Diesel	8000
SPECIAL FEATURES & EMISSION CONTROL SYSTEMS			TYPICAL EQUIPMENT APPLICATION	
Direct Diesel Injection, Turbocharger, Charge Air Cooler, Engine Control Module and Exhaust Gas Recirculation			Tractor	

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 (NO_x), or non-methane hydrocarbon plus oxides of nitrogen (NMHC+NO_x), 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 STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NO _x	NMHC+NO _x	CO	PM	ACCEL	LUG	PEAK
75 ≤ kW < 130	Tier 3	STD	N/A	N/A	4.0	5.0	0.30	20	15	50
		CERT	--	--	3.7	0.9	0.13	12	2	15

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 day of January 2007.



Annette Hebert, Chief
Mobile Source Operations Division

Engine Model Summary Form

ATTACHED BY (of 1)

U-R-015-0120

Manufacturer: **IVECO S.p.A**
 Engine category: **Nonroad CI**
 EPA Engine Family: **7VEXL04.5DCA**
 Mfr Family Name: **F4DE948**
 Process Code: **New Submission**

1. Engine Code	2. Engine Model	3. BHP@RPM (SAE Gross)	4. Fuel Rate: mm/stroke @ peak HP (for diesel only)	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
445TA/EGA	F4DE9484A*J	140 @ 2200	110	N/A	448 @ 1600	136	N/A	EM.EC.TAA. CAC EE
445TA/EGB	F4DE9484B*J	130 @ 2200	100.9	N/A	438 @ 1400	126.4	N/A	EM.EC.TAA. CAC
445TA/EGC	F4DE9484D*J	120 @ 2200	93.1	N/A	415 @ 1400	119.6	N/A	EM.EC.TAA. CAC
445TA/EGD	F4DE9484E*J	110 @ 2200	84.3	N/A	384 @ 1400	111.7	N/A	EM.EC.TAA. CAC
445TA/EGJ	F4DE9487B*J	130 @ 2200	98.0	N/A	406 @ 1600	118.6	N/A	EM.EC.TAA. CAC
445TA/EGK	F4DE9487A*J	140 @ 2200	104.9	N/A	423 @ 1600	126.4	N/A	EM.EC.TAA. CAC
554TA/EGH	F4HE9484C*J	110 @ 2200	86	N/A	381 @ 1400	121	N/A	EM.EC.TAA. CAC