California Environmental Protection Agency	
AIR RESOURCES BOARD	IVECO N.V.

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)	
2004	4VEXL04.5DNA	3.4, 4.5	Diesel	8000	
	ATURES & EMISSION		TYPICAL EQUIPMENT		
Direct Diesel Injection		Loader, Tractor and Other Industrial Equipment			

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	RATED EMISSION			EXHAUST (g/kw-hr)				OPACITY (%)		
POWER	STANDARD		нс	NOx	NMHC+NOx	со	PM	ACCEL	LUG	PEAK
37 < kW < 75	Tier 2	STD	N/A	N/A	7.5	5.0	0.40	20	15	50
		CERT			6.8	3.8	0.37	10	13	17

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 November 2003.

Allen Mons, Chief Mobile Source Operations Division

Engine Model Summary Form

U-R-015-0048

Manufacturer:IVECO NVEngine category:Nonroad ClEPA Engine Family:4VEXL04.5DNAMfr Family Name:F4GE0404

New Submission

Process Code:

8.Fuel Rate: 9.Emission Control (Ibs/hr)@peak torque Device Per SAE J1930	EM. EM. EM. EM. EM.
8.Fuel Rate: (Ibs/hr)@peak torque	N/A N/A N/A N/A N/A N/A N/A N/A
7.Fuel Rate: mm/stroke@peak torque	84.3 82 82 82 81 81 64 71
6.Torque @ RPM (SEA Gross)	242 @ 1400 236 @ 1400 232 @ 1400 236 @ 1400 236 @ 1400 236 @ 1400 218 @ 1400 218 @ 1400 218 @ 1400 166 @ 1400
5.Fuel Rate: (ibs/hr) @ peak HP (for diesels only)	NA NA NA NA NA NA NA NA NA NA NA
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	67.5 62 65 65 54 53 58
3.BHP@RPM /sab Gross)	80 @ 2200 80 @ 2500 80 @ 2500 80 @ 2300 80 @ 2300 63 @ 2300 71 @ 2300 71 @ 2300 55 @ 2300
	I.Engine Code Z.Engine Model N/A F4GE0404E*D N/A F4GE0404A*D N/A F4GE0404A*D N/A F4GE0404A*D N/A F4GE0404A*D N/A F4GE0404A*D N/A F4GE0404B*D
-	1.Engine Code N/A N/A N/A N/A N/A N/A N/A N/A