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California Environmental Protection Agency AIR RESOURCES BOARD	IVECO N.V.	EXECUTIVE ORDER U-R-015-0029 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-45-9;

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	2VEXL05.9DAS	5.9	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Smoke Puff Limiter	Loader, Tractor, 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 POWER CLASS	EMISSION STANDARD CATEGORY		EXHAUST (g/kw-hr)					OPACITY (%)		
			HC	NOx	NMHC+NOx	CO	PM	ACCEL	LUG	PEAK
37 ≤ KW < 130	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50
		CERT	--	6.0	--	--	--	5	4	8

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 22nd day of January 2002.

R. B. Summerfield, Chief
Mobile Source Operations Division

ATTACHMENT

LARGE ENGINE MODEL SUMMARY

12/12/01

U-R-015-0029

Manufacturer: IVECO N. V.

Process Code: New Submission

EPA Engine Family: 2VEXL05.9DAS

Manufacturer Family Name: NA

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 Contr Device Per SAE J1
8035.25.527/576	8035.25.	71@2300	69	25,5	211@1400	86	19,8	DDI, TC, SPL
8045.25S.529/553	8045.25	88,5@2300	63,6	32,3	269@1400	82,5	25,6	↓
8045.25.502/515	8045.25.	84@2500	58	32,6	216@1400	65	21,8	↓
8045.25K.513/520	8045.25K.	93,5@2500	65	35,2	246@1500	74,5	24,9	↓
8045.25.291	8045.25.	88@2100	69	31.5	268@1400	84	25,3	↓
8045.25.550/576	8045.25	106@2300	80	40	280@1400	88	26,78	↓
8065.25.290	8065.25	115@2300	57	42,2	318@1500	61,8	30,8	↓
8065.25.291	8065.25	132@2200	67	47,7	388@1500	75,4	37,6	↓
8065.25.561	8065.25	158@2300	78	60	388@2100	83	57,7	↓
8045.25.562	8045.25	83@1800	74	29,2	---	---	---	↓
8065.25.562	8065.25.	123@1800	73	43,2	---	---	---	↓
8035.25R.520/517	8035.25R.	65@2300	62	23,5	180@1400	74	17,3	↓
8065.25.828	8065.25	128@2250	63	46	361@1400	71	33	↓
8045.25L.521	8045.25L	88,5@2500	63	32,2	246@1500	82	24,8	↓