

State of California
AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-15-19
Relating to Certification of New Off-Road Compression-Ignition Engines

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-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:

Model Year: 2001

Typical Equipment Usage: Loader and Tractor

Fuel Type: Diesel

	Engine		
	Displacement	Useful Life	Emission Control Systems
<u>Engine Family</u>	<u>(liters)</u>	<u>(hours)</u>	<u>and Special Features</u>
1VEXL05.9DAS	5.9	8000	Direct Diesel Injection Turbocharger Smoke Puff Limiter

Engine models and codes are listed on attachments. Production engines shall be in all material respects the same as those for which certification is granted.

The exhaust emission certification standards and certification values for hydrocarbons (HC), oxides of nitrogen (NOx), or non-methane hydrocarbons plus oxides of nitrogen (NMHC+NOx), carbon monoxide (CO), and particulate matter (PM) (units are expressed in grams per kilowatt-hour (g/kw-hr)), and the opacity-of-smoke certification standards and certification values in percent (%) during acceleration (Accel), lugging (Lug), and the peak value from either mode (Peak) for this engine family are as follows (Title 13, California Code of Regulations, Section 2423):

Engine Power <u>Rating (kw)</u> 37≤KW<130	Emission Standard	<u>Exhaust Emissions (g/kw-hr)</u>						<u>Smoke Opacity (%)</u>		
	<u>Category</u>		HC	NOx	NMHC+NOx	CO	PM	<u>Accel</u>	<u>Lug</u>	<u>Peak</u>
	Tier 1	Standard	N/A	9.2	N/A	N/A	N/A	20	15	50
		Certification	--	8.0	--	--	--	5	4	8

BE IT FURTHER RESOLVED: That the listed engine models also comply with "Emission Control Labels— 1996 and Later Off-Road Compression-Ignition Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model-year.

BE IT FURTHER RESOLVED: That for the listed engine models, the manufacturer has submitted the materials to demonstrate certification compliance with the Board's emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 and 2426).

Engines certified under this Executive Order must conform to all applicable California emission regulations.

Executed at El Monte, California this 6th day of March 2001.



R. B. Summerfield, Chief
Mobile Source Operations Division

Attache ⁴

LARGE ENGINE MODEL SUMMARY

12/11/00

ED# U-R-15-19

Manufacturer: IVECO N. V.

Process Code: New Submission

EPA Engine Family: 1VEXL05.9DAS

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 Control Device Per SAE J1930
8035.25.527/576	8035.25.	71@2300	53	69	25,5	211@1400	86	19,8
8045.25S.529/553	8045.25	88,5@2300	66	63,6	32,3	269@1400	82,5	25,6
8045.25.502/515	8045.25.	84@2500	63	58	32,6	216@1400	65	21,8
8045.25K.513/520	8045.25K.	93,5@2500	70	65	35,2	246@1500	74,5	24,9
8045.25.291	8045.25.	88@2100	66	69	31,5	268@1400	84	25,3
8045.25.550/576	8045.25	106@2300	79,5	80	40	280@1400	88	26,78
8065.25.290	8065.25	115@2300	86	57	42,2	318@1500	61,8	30,8
8065.25.291	8065.25	132@2200	99	67	47,7	388@1500	75,4	37,6
8065.25.561	8065.25	158@2300	119	78	60	388@2100	83	57,7
8045.25.562	8045.25	83@1800	62	74	29,2	---	---	---
8065.25.562	8065.25.	123@1800	92	73	43,2	---	---	---
8035.25R.520/517	8035.25R.	65@2300	49	62	23,5	180@1400	74	17,3
8065.25.828	8065.25	128@2250	96	63	46	361@1400	71	33

DI, TC, SPL



EPA Cert No: VEX-NRCI-01-01