California Environmental Protection Agency AIR RESOURCES BOARD	INTERNATIONAL TRUCK AND ENGINE CORPORATION	EXECUTIVE ORDER U-R-012-0062 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)
2004	4NVXL0530ANE	8.7	Diesel	8000

SPECIAL FEATURES & EMISSION CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION
Direct Diesel Injection, Turbocharger, Charge Air Cooler and Engine Control Module	Loader, Dozer and 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 (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
130≤KW<225	Tier 2	STD	N/A	N/A	6.6	3.5	0.20	20	15	50
225≤KW<450	Tier 2	STD	N/A	N/A	6.4	3.5	0.20	20	15	50
		CERT	--	--	5.5	2.2	0.17	13	2	14

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 5TH day of January 2004.

Allen Lyons, Chief
Mobile Source Operations Division

ATTACHMENT 1 OF 1

Engine Model Sur ary Form

Manufacturer: **International E. O. # U-R-12-62**

Engine category: **Nonroad CI**

EPA Engine Family: **4NVXL0530ANE**

Mfr Family Name: **DTA 530E**

Process Code: **New Submission**

U-R-012-0062

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
		Advertised	Average	Average	Advertised	Average	Average	
ICH300D	ICH300D	300 @ 2200	163.2	120.3	1075 @ 1300	215.2	93.7	DDI ECM,TC, CAC,
IC330D	IC330D	330 @ 2000	190.0	127.3	1050 @ 1300	205.7	89.6	ECM,TC, CAC,
IC315D	IC315D	315 @ 2200	167.3	123.3	978 @ 1700	200.4	114.1	ECM,TC, CAC,
IC300D	IC300D	300 @ 2000	169.0	113.2	1050 @ 1300	204.8	89.2	ECM,TC, CAC,
ICL300D	ICL300D	300 @ 2000	175.0	117.2	950 @ 1300	189.0	82.3	ECM,TC, CAC,
ICH265D2	ICH265D2	265 @ 2200	133.2	98.2	850 @ 1300	169.4	73.8	ECM,TC,CAC,
ICL265D2	ICL265D2	265 @ 2200	139.0	102.4	822 @ 1700	163.2	92.9	ECM,TC,CAC,