## State of California AIR RESOURCES BOARD

## EXECUTIVE ORDER U-R-12-49 Relating to Certification of New Off-Road Compression-Ignition Equipment Engines

## INTERNATIONAL TRUCK AND ENGINE CORP.

Pursuant to the authority vested in the Air Resources Board (Board) by Sections 43013, 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 exhaust 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, Tractor, Dozer and Pump

Fuel Type: Diesel

Engine Family 1NVXL0530ANE (DTA 530E)	Engine Displacement ( <u>liters)</u> 8.7	Useful Life ( <u>hours)</u> 8000	Exhaust Emission Control Systems and Special Features Engine Control Module Turbocharger Charge Air Cooler Direct Diesel Injection
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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 total hydrocarbons (THC), carbon monoxide (CO), oxides of nitrogen (NOx), 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, as amended by Board approval on January 28, 2000):

Engine Power <u>Rating (kw)</u>	Emission Standard <u>Category</u>		Exhau	Smoke Opacity (%)						
-taung (KW)	Category							,		
130 <u>&lt;</u> KW<225	Tier 1	Standard Certification	<u>THC</u> 1.3 0.1	<u>NOx</u> 11.4 5.4	<u>CO</u> 9.2 1.8	<u>PM</u> 0.54 0.17	Accel 20 13	<u>Lug</u> 15 2	<u>Peak</u> 50 14	
225 <u>&lt;</u> KW<450	Tier 2		<b>NMHC</b>	+NOx	<u>CO</u>	<u>PM</u>	Accel	. –		
		Standard	6.			0.20		Lug	<u>Peak</u>	
				-	3.5		20	15	50	
		Certification	5.	5	1.8	0.17	13	2	14	

BE IT FURTHER RESOLVED: That, at the request of the manufacturer, the listed engine models are **conditionally certified** to, and shall be required to comply with, all amendments to Title 13, California Code of Regulations, Sections 2420 through 2427 adopted by the Board on January 28, 2000 at its hearing "TO CONSIDER AMENDMENTS TO OFF-ROAD COMPRESSION-IGNITION ENGINE REGULATIONS: 2000 AND LATER EMISSION STANDARDS, COMPLIANCE REQUIREMENTS AND TEST PROCEDURES." The listed engine models comply with all such amendments, including, but not limited to:

- the amended "Emission Control Labels—1996 and Later Off-Road Compression-Ignition Engines" (Title 13, California Code of Regulations, Section 2424) for the aforementioned model year;
- the Board's amended emission control system warranty provisions (Title 13, California Code of Regulations, Sections 2425 and 2426) for the listed engine models, as demonstrated by materials submitted by the manufacturer; and
- new California requirements for the Selective Enforcement Audit (SEA) for the listed engine models, as demonstrated by the manufacturer's submission of materials.

BE IT FURTHER RESOLVED: That the conditional certification described in the paragraph above is conditioned on the amendments being approved by the California Office of Administrative Law (OAL) pursuant to Government Code Section 11349.3, and where necessary, authorized by the Administrator of the U. S. Environmental Protection Agency (U.S. EPA) pursuant to Section 209(e)(2) of the Federal Clean Air Act. In the event that the OAL disapproves the amendments or the U.S. EPA decides not to authorize them, the ARB shall notify the manufacturer that the listed engine models must comply with the "California Exhaust Emission Standards and Test Procedures for 1996 and Later Heavy-Duty Off-Road Diesel Cycle Engines" (Title 13, California Code of Regulations, Sections 2420 through 2427) adopted on May 12, 1993, as applicable. Failure to demonstrate compliance within 45 days after notification by the Air Resources Board shall be cause for the Board to revoke the Executive Order and deem the listed engine models uncertified.

The conditional certification described herein is not conditioned on further U.S. EPA action on amendments determined by the Board to be within the scope of an existing U.S. EPA authorization.

Engines certified under this Executive Order must conform to the above requirements under Title 13, California Code of Regulations, Chapter 9, Article 4, and all other applicable California emission laws and regulations.

Executed at El Monte, California this \_\_\_\_\_\_ day of December 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model St. nary Form

Manufacturer: International E.O. # U-R-12-49

ATTA IMENT

Engine category: Nonroad CI

EPA Engine Family: 1NVXL0530ANE

Mir Family Name: DTA 530E

Process Code: New Submission

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9.Emission Control Device Per SAE J1930		FCM TO CAC	ECM TO CAC		1 LOW, 10, UAC,	ECM, IC, CAC, ECM, TC, CAC,									2			TATAL THE TATAL
8.Fuel Rate: (lbs/hr)@peak torque	Average	93.7	9.68		}			The property of the property o			THE PERSON AND THE PE	ed control of the con		A STATE OF THE STA				
7.Fuel Rate: mm/stroke@peak torque	Average	215.2	205.7	200.4	204.8	189.0		Andrewson the State of the Stat			THE PERSONAL PROPERTY OF THE PERSON OF THE P		A CONTRACTOR OF THE PROPERTY O					The state of the s
6.Torque @ RPM (SEA Gross)	Advertised	1075 @ 1300	1050 @ 1300	978 @ 1700	1050 @ 1300	950 @ 1300	Will the supplies and the supplies of the supp	TOTAL MARKET PARTY (AMPLICATION OF THE COMMISSION OF THE COMMISSIO		The state of the s	The common term is taken compare which community to present community of some		THE PROPERTY AND THE THE THE PROPERTY OF THE P		The second secon	elementation (character) in the character (in the character) and the character (in th		
5.Fuel Rate: (lbs/hr) @ peak HP (for dlesels only)	Average	120.3	127.3	123.3	113.2	117.2		AL COLOR COLOR MANAGEMENT COLOR COLO			The second secon		Challed I I may provide the Lord of the State of British I and the State of		men ti Prindra Al Vaziona i April Alexadora de la compania del compania de la compania de la compania del compania de la compania del la compania de la compania de la compania de la compania de la compania del la compan	CONTRACTOR OF THE PROPERTY OF		
4. Fuel Hate: mm/stroke @ peak HP (for diesel only)	Average	163.2	190.0	167.3	169.0	175.0					The second secon	Of course and a manager of descriptions and a manager manager.	TAN THE REAL PROPERTY OF THE PARTY OF THE PA	And the second s	11.	Address of the second s		Wellen communication to the communication of the co
	Advertised	300 @ 2200	330 @ 2000	315 @ 2200	300@ 2000	300 @ 2000	The second section of the second seco									The manual of the state of the		I mention the second se
2.Engine Model	and the spill the transmission of the transmission of the second	ICH300D	IC330D	C315D	IC300D	ICL300D	· The administration of the manufacture of the Manufacture and the manufacture of the man				The same of the sa		Territorial de la Company de la Salada de Company de Co			Mountain and the formatter of the format	The state of the s	e ent en l'accession demonstra et fallad fortes accessions fundaments
1.Engine Code		ICH300D	IC330D	ICSTSD Section	C300D	ICL300D		The second control of					et militet de nomme (mys.). Let frenche e dagger i britatie de nomme grande e e e e e					