State of California AIR RESOURCES BOARD

EXECUTIVE ORDER U-R-12-47 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, 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 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: Generator

Fuel Type: Diesel

Engine Family 1NVXL0530ANC (DTA 530E)	Engine Displacement (<u>liters)</u> 8.7	Useful Life (hours) 8000	Exhaust Emission Control Systems and Special Features Direct Diesel Injection Turbocharger Charge Air Cooler
			Charge Air Cooler Engine Control module

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(b)(1) and 2423(b)(3)(B), as amended by Board approval on January 28, 2000):

Engine Power <u>Rating (kw</u>)	Emission Standard <u>Category</u>	Exhaust Emissions (g/kw-hr)		ons	Smoke Opacity (%)				
130 <u><</u> KW<225	Tier 1	Standard Certification	<u>THC</u> 1.3 0.1	<u>CO</u> 11.4 0.5	NOx 9.2 7.3	<u>PM</u> 0.54 0.12	Accel N/A 	Lug N/A	<u>Peak</u> N/A

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 ___/8^{TH_} day of December 2000.

R. B. Summerfield, Chief

Mobile Source Operations Division

HMENT

Engine Model S mary Form

Manufacturer:

International E.O. # U-R-12-47

Engine category:

Nonroad Ci

EPA Engine Family: 1NVXL0530ANC

Mfr Family Name: DTA 530E

Process Code:

New Submission

1.Engine Code 2.Engine Model	3.BHP@RPM (SAE Gross)	‡.Fuel Rate: mm/stroke	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.Emiss Device Pr	9.Emission Control Device Per SAE J1930	
		Advertised	Average	Average	Advertised	Average	Average	In the Br	
GCB275	GCB275	275 @ 1500	189.1	95.0	NA	NA	NA	/	
GCA270	GCA270	270 @ 1800	154.1	93.0	NA	NA	NA	ECN	1 DNT:
GCB250	GCB250	250 @ 1500	166.0	83.4	NA	NA	NA	1	1,000,
GCA250	GCA250	250 @ 1800	142.8	86.1	NA	NA	NA		
GCB230	GCB230	230 @ 1500	152.6	76.7	NA	NA	NA		1
	and the common of the common o	· · · · · · · · · · · · · · · · · · ·						Salar Carrier	
-	THE Addition of the State of th		Radonassan op Laborassan op (4 Lones assesse)	STEEL STATE CO.	18. h				AMERICAN TO THE PROPERTY AND IN COMMERCENT
and the same of th		normanical control of the second control of	- serine suppresses or sering topologists . All of a sering sering						
									de la constitución de la constit
	WEIGHT dades a consequence is all photographics on complete and the form		to the second se		· · · · · · · · · · · · · · · · · · ·			1	
				The state of the s	er er tilber samme magnet ser skriver han bestelle ser ser ser ser ser ser ser ser ser se	Bulla contrological state laboration and the state of the			****
The state of the s	AND THE PROPERTY OF THE PROPER		The state of the s			and the second s		Marth, sqi	
						• dec		de endischen steller	
			The state of the s	emoliticals (* **********************************	The state of the s	The state of the s			4.53
	All the second s	V92111111111111111111111111111111111111			- Target - Will State State Control and Application of the State Control	The same same same specimens and the same same same same same same same sam			
	THE RESERVE THE PROPERTY OF TH		THE CONTROL OF THE CO	B.W. Commission of the Section of th					
				· · · · · · · · · · · · · · · · · · ·					
	distribution of the second		The state of the s	The second secon		The state of the s	of the constitution of the state of the stat		V
	HE AND MINE CONTROL OF THE PROPERTY OF THE PRO	The state of the s	"Maked and the latest						
			the state of the s				or the first of the state of th		1,5
							The state of the s		THE RESERVE OF THE PARTY OF THE
					The second section of the second seco				