

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0079

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	2KBXL03.3AAD	3.318	Diesel	8000					
SPECIAL I	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION						
Di	irect Diesel Injection, Tu	rbocharged	Pump, Compressor, Other Industrial Equipment						

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):

		1		EXHAUST (g/kw-l	<u></u>	OPACITY (%)				
TEGORY		HC	NOx	NMHC+Nox	co	РМ	ACCEL	LUG	PEAK	
Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50	
	CERT		6.4				20	- 10	23	
		Tier 1 STD	Tier 1 STD N/A	Tier 1 STD N/A 9.2	Tier 1 STD N/A 9.2 N/A	Tier 1 STD N/A 9.2 N/A N/A CERT 6.4	Tier 1 STD N/A 9.2 N/A N/A N/A CERT 6.4	Tier 1 STD N/A 9.2 N/A N/A N/A 20 CERT 6.4	Tier 1 STD N/A 9.2 N/A N/A N/A 20 15	

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

28 th

_ day of November 2001.

R. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model Summary Form

Attachment 1 of 1

4- R-025-0079

Engine category: Manufacturer: **KUBOTA** Corporation

EPA Engine Family. Mfr Family Name: Nonroad Cl

2KBXL03.3AAD

Process Code: Running Change

2.Engine Model V3300-DI-T-E 3.BHP@RPM (SAE Gross) 90.0@2600

V3300-DI-T-E4

1.Engine Code

4.Fuel Rate: mm/stroke @ peak HP (for diesel only)

59.6

34.6

222.7@1400

5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)

6.Torque @ RPM (SEA Gross)

70.5

7.Fuel Rate: mm/stroke@peak torque

8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930

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22.1

Engine Model St. nary Form

to# 4-12-025-0079

Manufacturer: KUBOTA Corporation

Engine category: Nonroad CI

EPA Engine Family: 2KBXL03.3AAD

Mfr Family Name:

Process Code: Running Change

8.Fuel Rate: 9.Emission Control lbs/hr)@peak torque Device Per SAE J1930	70.5 22.1
ਉ	70.5 22.1
7.Fuel Rate: mm/stroke@peak torque	70.5
6.Torque @ RPM (SEA Gross)	
5.Fuel Rate: (lbs/hr) @ peak HP (for diesels only)	60.0 32.2
4.Fuel Rate: 5.Fuel Rate: 7.Fuel Rate: 7.Fuel Rate: 7.Fuel Rate: 8.Fuel Rate: 8.Fuel Rate: 8.Fuel Rate: (for diesel only) (for diesels only) (SEA Gross) torque (ibs/hr)@peak to	0.09
3.BHP@RPM (SAE Gross)	
1.Engine Code 2.Engine Model	V3300-DI-T-E
1.Engine Code	V3300-DI-T-E2 V3300-DI-T-E

Engine Model 'mmary Form

KUBOTA Corporation Manufacturer:

Nonroad Cl Engine category:

EPA Engine Family: 2KBXL03.3AAD Mfr Family Name: N/A

New Submission Process Code:

Attachment

W-R-25-79

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per RAE 1930	Merel SAL 41950		MA.			The second of th								The state of the s		Citizan Li da capacida mandri al processorio in contra del capacida de	The second section of the second section is the second section of the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is the second section in the second section in the second section is section in the second section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the section in the section is section in the section in the section in the section is section in the				
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8.Fuel R (lbs/hr)@pea	24.	24.4	7:17		The second secon					erbe menej er sjæleke en megjere i skjenneske emme er op				Hammer Apple to the special place of the state of the					Account of the state of the sta		
7.Fuel Rate: mm/stroke@peak torque	77.5	68 5	7.00	manifest of the second of the second	*** **********************************						epine tellende a communicación de la communicación de la communicación de la communicación de la communicación	And the second s		merti i mekanasamiti i kala aras manasaming di danasam meri inggan					MATERIAL PROPERTY OF THE PROPE		
6.Torque @ RPM (SEA Gross)	245.6@1400	222 7@1400		Commence of the Commence of th	Land to the first section of t		A consequence of the state of consequence of the color of				demonstrate in the control of the co								reference as more transfers of any other consequence and the consequence of the consequen		
5.Fuel Rate: (fbs/hr) @ peak HP (for diesels only)	34.9	31.1	transmitted with the convey of the form of the contract of the	Wilder education of the state o	s de		and the second House and the second s		Auto	The second secon	And the second confidence of the second confid										
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	0.09	58.0	AND THE PERSON OF THE PERSON O				Arms and an extension of the second s			The production of the control of the	The state of the s						The second secon	And the second s			
3.BHP@RPM (SAE Gross)	90.5@2600	83.5@2400	of the consequence of the second of the seco		The last terminate of the control of	**************************************		The second secon	annes appell Hatti transcom er et jalente commissionem en jajahat i ja den	- Common Copies (parties and an array of 1 are 1				-			The second secon			de commune de company de la company de company de la company de co	ment to a the distribution on the calculation and another than the calculation of the cal
2. Engine Model	V3300-DI-T-E	V3300-DI-T-E	HI Microscopic Company (March 1994)			THE PROPERTY WHEN THE TAX AND PARTY OF PROPERTY OF THE PARTY OF THE PA	THE Process of the second part o		OR THE THE RESERVE OF THE PROPERTY OF THE PROP	of the control content of School to the content of the third control content of the content of t		H 1998 (1) - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	THE PART OF THE PA				the state of the second control of the secon			THE RESIDENCE CONTRACTOR OF THE PROPERTY OF TH	with the state of
1.Engine Code	V3300-DI-T-E1	V3300-DI-T-E2			The state of the s							er en elektrik den en en engelektennik i i i kalifak da kommen en en en en en engelektrik en en kom			10.	The state of the s	en tel en stellebetet entennett met et flant stellestatet metet et				manada a de ser esta esta de la composición del composición de la composición de la composición del composición de la composición del composición de la composición del composición de la compos