

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0059 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) 5000						
2002	2KBXL01.5BAD	1.123, 1.498	Diesel							
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION							
In	direct Diesel Injection, T	urbocharged	Loader, 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):

RATED	EMISSION			-	EXHAUST (g/kw-l	OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		НС	NOx	NMHC+Nox	со	PM	ACCEL	LUG	PEAK
19 < KW < 37	Tier 1	STD	N/A	N/A	9.5	5.5	0.80	20	15	50
		CERT		-	5.1	1.1	0.37	7	3	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 _

day of November 2001.

CR. B. Summerfield, Chief

Mobile Source Operations Division

Engine Model (mmary Form

KUBOTA Corporation Manufacturer:

Nonroad Cl Engine category:

EPA Engine Family. 2KBXL01.5BAD

Mfr Family Name: N/A

New Submission Process Code:

A trachment

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9.Emission Control Device Per SAE J1930	IDI, TC N/A	≨ .	\$₩	A	XXX	V NTA							(Array (personal and albana) attended to antis, an ambigum and very special at the		and it may not be made at a second and a second and a second at a second at a second at a second at a second a		THE RESERVE THE PROPERTY OF TH		transcriptor analyst components and policy produces an extraord transcriptor and the sale of constant to an		A description of the second section of the section of the second section of the section of t	The second section of Management of the second seco	anderdend (very fire elemente prime des retrementes blemmes sempres et e despot epident titre de		a estatutus saatutus
8.Fuel Rate: (lbs/hr)@peak torque	14.0	13.4	13.5	12.0	10.4	10.2		material and the communication and the party of the common or conservation to the					BERTHER AND THE		- MI LITTLE PROPERTY AND			MANUAL TO THE TAXABLE STATE OF TAXABLE STATE O	men er en en er er en		S. I II PART TO THE TAXABLE PART TO THE PA	CALIFORNIA I PROGRAMMAN AND AND AND AND AND AND AND AND AND A	adalbagan (danah bisabi Nasar Nasar nasar nasar nasar data basar nasar nasar nasar nasar nasar nasar nasar na		
7.Fuel Rate: mm/stroke@peak torque	31.4	30.0	30.3	26.9	31.0	30.3		to the control of the property of the control of th	a and a second production of the second seco	And the second s			ere in company resonance consecution in this content to the content of the conten				Andreas de la companya de la company		a e principal partir de marcon constituir de principal manon com combinatoria designativa en constituir		many many many many many many many many	A DESIGNATION OF THE PROPERTY	te legger regeneration de la complete de la desarta de la complete del la complete de la complete del la complete de la complete del la complete de la compl		
6.Torque @ RPM (SEA Gross)	90.5@2000	87.5@2000	90.9@2000	78.3@2000	65.0@2000	63.5@2000					A CANADA MANAGAMAN AND AND AND AND AND AND AND AND AND A						The state of the s		mer en remedicit specification en en entre la constant de des en en entre de la constant en						
5.Fuel Rate: (bs/hr) @ peak HP (for diesels only)	18.0	19.0	15.5	19.0	14.2	13.2		And the second section of the secti	A CONTRACT OF THE PROPERTY OF		AND THE CO. THE STREET LAND AND THE STREET, THE STREET								A THE PERSON NAMED OF THE						
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	28.3	28.3	28.9	28.3	28.2	27.6		The second secon						The second state of the se				NAME OF THE OWNER OWNER OF THE OWNER OWNE	-			ampiro con constitutado de calabratura de constituta de constituta de constituta de constituta de constituta d	No. of the contract of the con	Mart, produceron colonia. I deposit programmento mantenta del colonia con con test	
3.BHP@RPM (SAE Gross)	42.0@2850	44.3@3000	38.4@2400	44.3@3000	32.9@3000	31.0@2850							The state of the s		The same and the s	The second secon					To the state of th	AND THE PROPERTY OF THE PROPER		The second secon	
2.Engine Model	V1505-T-E	V1505-T-E	V1505-T-E	V1505-T-E	D1105-T-E	D1105-T-E	remain in the first spring remains to the first spring remains and the proposed of the first spring remains to the first spring remains the first spring remains to the first spring remains the	programme mandada commandi. All common commandada (common commandada (common common co		response on the Auditoria Propagation and the Lorentz Library Company of the Comp			Transport of the Control of the Cont		Company of the Compan	The section of the se			The same of the sa	refer to the same commenced and the constitution about the response of		MINISTER CONTINUES OF A MARKET IN PROPERTY OF A STATE O	Commence of the Commence of th	the principle and containing at their containing and another con-	
1. Engine Code	V1505-T-F1	V1505-T-F2	V1505-T-E3	V1505-T-E4	D1105-T-E1	D1105-T-E2	The same of the sa			A THE RESERVE OF THE PARTY OF T	all the second sections and the second section of the second section of the second section sec	and the second s	and the same of th	The second secon		and the state of t				to proposition or manufacturing communicate formatter or should be seen to		response demandes and all the constructions of the construction of		the state of the s	