

KUBOTA CORPORATION

EXECUTIVE ORDER U-R-025-0084 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	2KBXL03.3BCD	3.318	Diesel	8000
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT	APPLICATION
	Indirect Diesel Inje	ection	Mower	

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			Ε	EXHAUST (g/kw-l		OPACITY (%)					
	STANDARD		нс	NOx	NMHC+Nox	co	PM	ACCEL	LUG	PEAK		
37 <u><</u> KW < 75	Tier 1	STD	N/A	9.2	N/A	N/A	N/A	20	15	50		
		CERT		5.8				10	10	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 S. mary Form

urer: KUBOTA Corporation

Manufacturer: KUBOTA Cor Engine category: Nonroad CI

EPA Engine Family. 2KBXL03.3BCD

Mfr Family Name:

Process Code: Running Change

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uel Rate: 9.Emission Control @peak torque Device Per SAE J1930	
8.F (lbs/hr)	18.
7.Fuel Rate: mm/stroke@peak torque	o,
6.Torque @ RPM (SEA Gross)	167.1@1400
5.Fuel Rate: (Ibs/hr) @ peak HP (for diesels only)	28.1 167.1@1400 57
4.Fuel Rate: mm/stroke @ peak HP (for diesel only)	Ngine Model (SAE Gloss) V3300-E 69.2@2500 50.2
3.BHP@RPM	(SAE GIOSS) 69.2@2500
() () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () () ()	Engine Code 2. Engline Model V3300-E7 V3300-E
•	Engine Code V3300-E7

Engine Model , mmary Form

Manufacturer: KUBOTA Corporation

Engine category: Nonroad CI

EPA Engine Family. 2KBXL03.3BCD

Mfr Family Name: N/A

Process Code: New Submission

Attachment

N856- 2-19

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8.Fuel Rate: 9.Emission Control (lbs/hr)@peak torque Device Per SAE J1930	¥₹ [d]	**	NA,	AM	₩ ₩	WALL THE PROPERTY OF THE PROPE				a merupa da			te proprio andre i i i i designi i maggiri no spropo andre di benedici dell'antre i i respectivo non de che	enematical de la proposition de management annual l'adquiption à communication de la c		many transfer the second of th	A A A A A A A A A A A A A A A A A A A							The state of the s	
8.Fuel Rate: (lbs/hr)@peak toro	18.9	18.6	17.2	17.5	18.2	18.8	A THE STATE OF THE	and the second s						pay pass and an amount to the terror and an amount and an amount and an amount and amount amount and amount an			es (equippe)	and the state of t					and the first control of the f	And the second s	
nm/stroke@peak forque	60.5	59.4	55.0	56.0	58.0	60.2	Appear come and their descriptions of the properties.						And the second s				The second section is a second	andras (1) pages is a summer assumed in property assumed assumed as the desired the object of the ob				ament i communication of the c	lada e i Prinsipe prin e manuscama dell'e dell'estat principale dell'estat dell'estat dell'estat dell'estat de		
6.Torque @ RPM (SEA Gross)	178.4@1400	171.6@1400	157.6@1400	159.5@1400	173.7@1400	174.0@1400				a terproduceramento casta for consensaturata desta formiga consensatura formiga.					d major no commendato del Principa Communication Res III communication del montre del mo		, , , , , , , , , , , , , , , , , , , ,					THE	The second section of the second seco		
5.Fuel Kate: (lbs/hr) @ peak HP (for diesels only)	29.9	29.5	24.6	25.7	29.9	29.5				e de la companya del companya de la companya de la companya del companya de la companya del la companya de la c					and annual of the frequency and an executed the separation and an executed and first					e constanti de la primera de constante de la c		The second secon	ere in manual establishe i dependent establishe establi		
4.Fuel Kate: mm/stroke @ peak HP (for diesel only)	51.5	50.7	50.0	50.0	51.5	50.7		and the second s	-	National and the second of the second	AMEL COMPANY OF THE PERSON OF							The state of the s		debutter da est l'est manuscrater a trapagnes promises ambients d'une consecution de l'annuelle trapagnes de l'annuelle de l'ann		The second secon	AND THE CONTROL OF TH	Commence of the Commence of th	
3.BHP@RPM (SAE Gross)	70.9@2600	72 1@2600	62.1@2200	65.0@2300	73.0@2600	71.0@2600)	mananan ipponimentalista languaga manananan likit lan			The second section of the second section of the second section	At a community of the c		man proportion and described at the second s					MAN PROPERTY OF THE PROPERTY O	·					
2.Engine Model	V3300-E	V3300-F	V3300-F	V3300-E	V3300-E	V3300-E					and the second s		And the second s	To the special control of the supplementation of the special control				at tal value on commental material material and administration of the second of the se	processing the second s		was and the street of the stre	The second secon	and the second s	ter annual of the transmission of the first constraints of the sections of	
1 Enaine Code	V3300-E1	V3300-E1	V3300-E2	V3300-E3	V3300-E5	V3300-F6									The section of the se	V. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1.		and the state of t	The second secon			to the component of the property of the last of the la	A Company of the Comp	V. Capita part of the control of the personal ball dependence and restrictions	