

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-02-003;

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		
2005	5H3XL2.00NCS	1.496 and 1.995	Diesel			
SPECIAL	FEATURES & EMISSION	CONTROL SYSTEMS	TYPICAL EQUIPMENT APPLICATION			
	Indirect Diesel Inje	ection	Generator			

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-hr)				OPACITY (%)				
POWER CLASS	STANDARD CATEGORY		нс	NOx	NMHC+NOx	со	РМ	ACCEL	LUG	PEAK
19 <u><</u> KW<37	Tier 2	STD	N/A	N/A	7.5	5.5	0.60	N/A	N/A	N/A
	-	CERT			4.5	1.6	0.21			

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 January 2005.

Allen Lyens, Chief Mobile Source Operations Division

Engine Model Summary Form

Manufacturer: Ishikawajima-Shibaura Machinery Co., Ltd.

Engine category: Nonroad Cl

EPA Engine Family: 5H3XL2.00NCS Mfr Family Name: N/A

W-R-026-0136

Process Code: New Submission

	(·
0		4				
8.Fuel Rate: 9.Emission Control bs/hr)@peak torque Device Per SAE J1930						
SAE Cor		_				
9.Emission Control evice Per SAE J193	Ē	Ē	<u>۳</u>		1.1 	1
Emis ice F				•		:
9. Dev	i .					10.00
aut						
tor						
el Ra peal		E Z	N/A		•	-
8.Fuel Rate: hr)@peak tor)					
(lbs/						
~				A THE REPORT OF A DESCRIPTION OF A DESCRIPANTO OF A DESCRIPTION OF A DESCRIPTION OF A DESCRIPTION OF A DESCR		:
7.Fuel Rate: nm/stroke@peak toroue						
vel Ral troke@ toroue		¥	¥۶	l 1		:
7.Fuel Rate: n/stroke@pe foroue						
7 MM					inger Statue	
						÷.,
6.Torque @ RPM (SEA Gross)	- -					
Torque @ RP	ŝ	4	A		n. Na	
) ent		z	Ż		· · :	
Torc	2					
ý.						
₽⊲	5	16.5+/-0.9				
ak F Sak F	5	0.9	Ę			
e Be	0000	+	12.4+/-1.1		d Fr	
5.Fuel Rate: Ibs/hr) @ peak HP #6r discels only/		9	12	ł		
isdl)						
<u>a</u>		in p				
sak F	۲. ۱	4	2			
4.Fuel Rate: stroke @ pea	(Tor diesel only)	Ŧ	31.4+/-2.7			
-uel ske (selo .	8	4			
4.Fuel Rate: mm/stroke @ peak	D :	27.8+/-1.4	က			
ШШ						
~	_	0		1		
3.BHP@RPM	(SAE Gross)	360	<u></u>	>		
@d	б. щ	ğ	<u> </u> @)		
3.8	(SA	34.	26.1@1800	Ş		
	2					÷. `
-	ē :					
-	lod	Sol	27/1R00C	2		
•	e ∠	360	27/1800C	ŝ		
	ığı	35/	1			
1	2.E	Ħ	<u>ا</u> ا	7	ų. Į	
	ode					
	Ŭ o	2	<u>ا</u> ا	2		
	gint	30	C From	10		•
	1. Engine Code 2. Engine Model	403C-15 HL35/3600C 34.7@3600	UTYON	Z		
	-	3. j - 4			T a	

.