WEAR CONTAMINATION FLUID CONDITION

NORMAL NORMAL

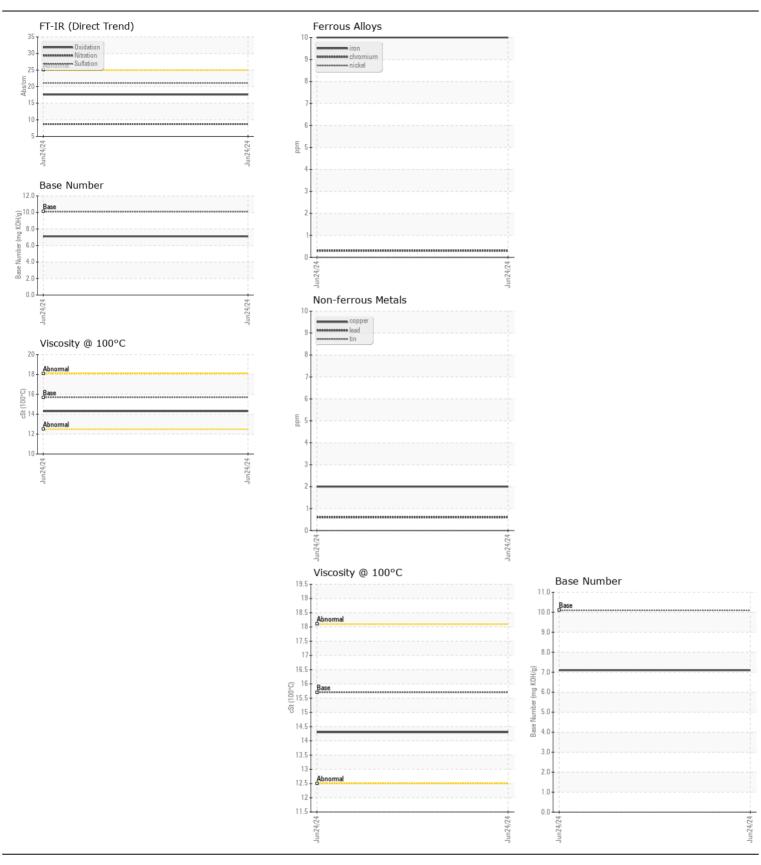
[41043]

KOBELCO SK45SRX-7 Smith Bros Kobelco Sk45 (S/N PH10030151)

Diesel Engine

SHELL ROTELLA T 15W40 (3 GAL)

SHELL HOTELLA T 13W40 (3 GAL)							
RECOMMENDATION	Test	UOM	Method	Limit/Abn	Current	History1	History2
Resample at the next service interval to monitor.	Sample Number		Client Info		SHM0000030		
	Sample Date		Client Info		24 Jun 2024		
	Machine Age	hrs	Client Info		978		
	Oil Age	hrs	Client Info		250		
	Filter Age	hrs	Client Info		250		
	Oil Changed		Client Info		Changed		
	Filter Changed		Client Info		Changed		
	Sample Status				NORMAL		
WEAR	Iron	ppm	ASTM D5185m	>100	10		
Metal levels are typical for a new component breaking in.	Chromium	ppm	ASTM D5185m	>20	<1		
	Nickel	ppm	ASTM D5185m	>4	0		
	Titanium	ppm	ASTM D5185m		<1		
	Silver	ppm	ASTM D5185m	>3	0		
	Aluminum	ppm	ASTM D5185m	>20	2		
	Lead	ppm	ASTM D5185m	>40	<1		
	Copper	ppm	ASTM D5185m	>330	2		
	Tin	ppm	ASTM D5185m	>15	0		
	Vanadium	ppm	ASTM D5185m		0		
	White Metal	scalar	*Visual	NONE	NONE		
	Yellow Metal	scalar	*Visual	NONE	NONE		
CONTAMINATION	Silicon	ppm	ASTM D5185m	>25	6		
SONTAMINATION	Potassium	ppm	ASTM D5185m		20		
There is no indication of any contamination in the oil.	Fuel	ppiii	WC Method		<1.0		
	Water		WC Method		NEG		
	Glycol		WC Method	7 0.2	NEG		
	Soot %	%	*ASTM D7844	>3	0.3		
	Nitration	Abs/cm	*ASTM D7624		8.7		
	Sulfation	Abs/.1mm	*ASTM D7415		21.1		
	Silt	scalar	*Visual	NONE	NONE		
	Debris	scalar	*Visual	NONE	NONE		
	Sand/Dirt	scalar	*Visual	NONE	NONE		
	Appearance	scalar	*Visual	NORML	NORML		
	Odor	scalar	*Visual	NORML	NORML		
	Emulsified Water	scalar	*Visual	>0.2	NEG		
FLUID CONDITION	Sodium	nnm	ASTM D5185m		2		
FLUID CONDITION	Boron	ppm	ASTM D5185m	316	139		
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.	Barium	ppm	ASTM D5185m		0		
	Molybdenum	ppm	ASTM D5185m		6		
	Manganese	ppm	ASTM D5185m	1	<1		
	Magnesium	ppm	ASTM D5185m	24	17		
	Calcium	ppm	ASTM D5185m		2293		
	Phosphorus	ppm	ASTM D5185m		1008		
	Zinc	ppm	ASTM D5185m		1265		
	Sulfur	ppm	ASTM D5185m		4195		
	Oxidation	Abs/.1mm	*ASTM D7414		17.6		
					7.1		
	Base Number (BN)	IIIQ NUTI/(I	A3 1 W D2090	10.1	7.1		







Certificate L2367

Laboratory Sample No. Unique Number : 11109431

: SHM0000030 Lab Number : 06225938

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received **Tested**

: 03 Jul 2024 Diagnosed

: 03 Jul 2024 - Wes Davis

: 02 Jul 2024

Test Package : CONST (Additional Tests: TBN) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation. Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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