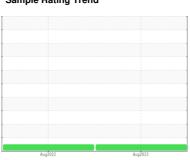


OIL ANALYSIS REPORT

Sample Rating Trend



NORMAL



KOBELCO 9 - 21J121269

Component

Compressor Fluid

KOBELCO (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil

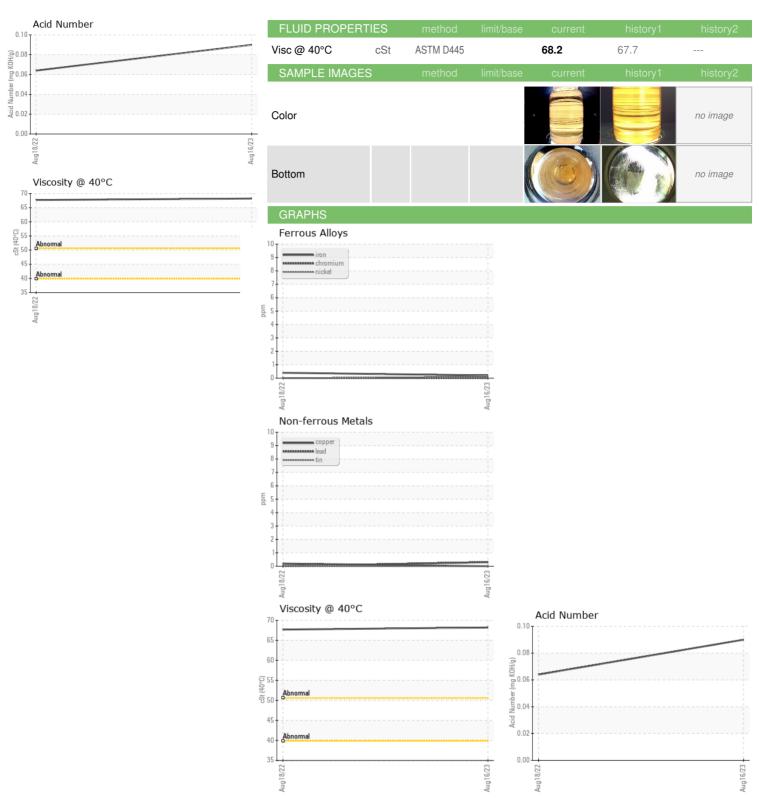
Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

			Aug2022	Aug2023		
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0806245	WC0705540	
Sample Date		Client Info		16 Aug 2023	18 Aug 2022	
Machine Age	hrs	Client Info		4631	1190	
Oil Age	hrs	Client Info		1423	1190	
Oil Changed		Client Info		Not Changd	Not Changd	
Sample Status				NORMAL	NORMAL	
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	<1	<1	
Chromium	ppm	ASTM D5185m	>10	0	0	
Nickel	ppm	ASTM D5185m		<1	0	
Titanium	ppm	ASTM D5185m		0	0	
Silver	ppm	ASTM D5185m		0	0	
Aluminum	ppm	ASTM D5185m	>25	0	0	
Lead	ppm	ASTM D5185m	>25	<1	0	
Copper	ppm	ASTM D5185m	>50	0	<1	
Tin	ppm	ASTM D5185m	>15	0	0	
Vanadium	ppm	ASTM D5185m		0	0	
Cadmium	ppm	ASTM D5185m		0	0	
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	
Barium	ppm	ASTM D5185m		0	<1	
Molybdenum	ppm	ASTM D5185m		0	0	
Manganese	ppm	ASTM D5185m		0	0	
Magnesium	ppm	ASTM D5185m		<1	0	
Calcium	ppm	ASTM D5185m		0	0	
Phosphorus	ppm	ASTM D5185m		2	6	
Zinc	ppm	ASTM D5185m		0	0	
Sulfur	ppm	ASTM D5185m		15	30	
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>25	0	4	
Sodium	ppm	ASTM D5185m	<i>></i> 20	0	0	
Potassium	ppm	ASTM D5185m	>20	<1	0	
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	mmbasc	0.09	0.064	
VISUAL		method	limit/base	current	history1	history2
	ooclar					
White Metal	scalar	*Visual	NONE	NONE	NONE	
Yellow Metal	scalar scalar		NONE	NONE NONE	NONE	
Precipitate Silt	scalar	*Visual	NONE NONE	NONE	NONE NONE	
Debris	scalar	*Visual	NONE	NONE	NONE	
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	
Appearance	scalar	*Visual	NORML	NORML	NORML	
Odor	scalar	*Visual	NORML	NORML	NORML	
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	
Free Water	scalar	*Visual	70.1	NEG	NEG	
1 166 VValei	Scaidi	visual		NEG	INEG	OON VOEDUD



OIL ANALYSIS REPORT







Laboratory Sample No. Lab Number

: WC0806245

: 05929769 Unique Number : 10615040

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 21 Aug 2023 Diagnosed : 23 Aug 2023

Diagnostician : Jonathan Hester

Test Package : IND 2 (Additional Tests: KF)

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)

T: (952)895-4125 F:

XCEL ENERGY

US 55337

BURNSVILLE, MN

1400 EAST BLACK DOG RD

Contact: JAYME BENSON

Report Id: XCEBUR [WUSCAR] 05929769 (Generated: 08/23/2023 10:49:45) Rev: 1

Contact/Location: JAYME BENSON - XCEBUR