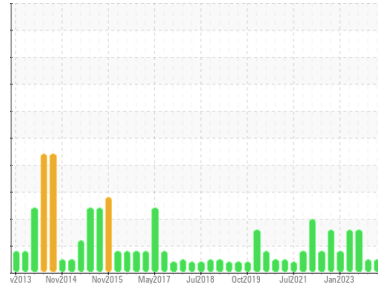




# OIL ANALYSIS REPORT

Sample Rating Trend



**NORMAL**



Area

**HIGH SIDE**

Machine Id

**FRICK COMPRESSOR 7 (S/N S0235NFMTPHCA3)**

Component

**Refrigeration Compressor**

Fluid

**REFRIG COMP OIL ISO 68 (--- 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. The amount and size of particulates present in the system are acceptable.

### Fluid Condition

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

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>USP234640</b>	USP249753	USP233570
Sample Date	Client Info		<b>12 May 2024</b>	04 Jan 2024	12 Jul 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>NORMAL</b>	NORMAL	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	<b>21</b>	0	17
Chromium	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Nickel	ppm	ASTM D5185m	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>&lt;1</b>	0	<1
Silver	ppm	ASTM D5185m >2	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >3	<b>0</b>	0	<1
Lead	ppm	ASTM D5185m >2	<b>&lt;1</b>	0	0
Copper	ppm	ASTM D5185m >8	<b>&lt;1</b>	0	0
Tin	ppm	ASTM D5185m >4	<b>&lt;1</b>	0	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	<1
Cadmium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	<b>0</b>	0	0
Barium	ppm	ASTM D5185m 5	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 5	<b>&lt;1</b>	0	0
Calcium	ppm	ASTM D5185m 12	<b>0</b>	0	0
Phosphorus	ppm	ASTM D5185m 12	<b>0</b>	0	0
Zinc	ppm	ASTM D5185m 12	<b>6</b>	0	0
Sulfur	ppm	ASTM D5185m 1000	<b>0</b>	13	0

## CONTAMINANTS

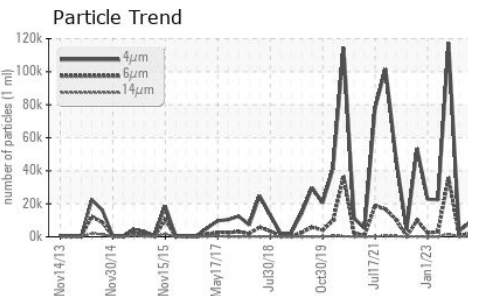
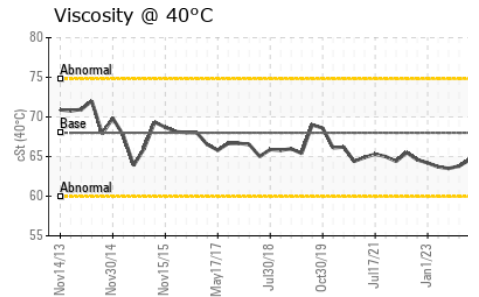
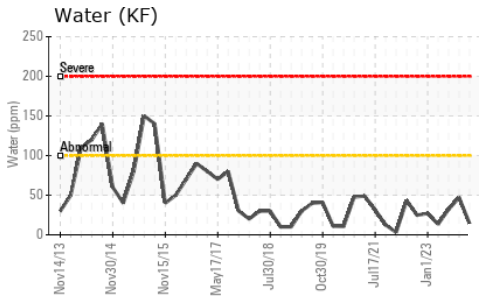
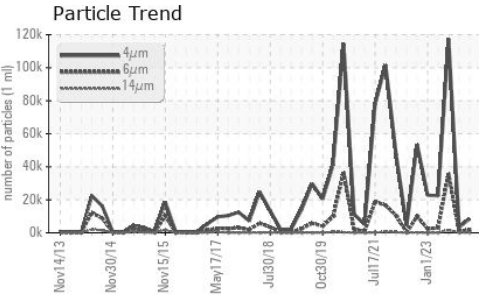
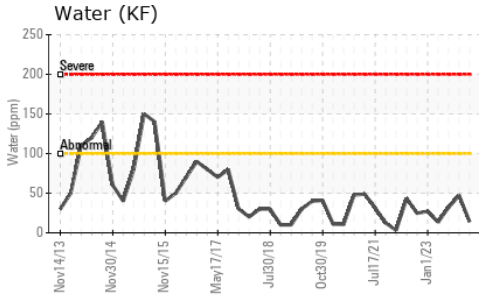
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>0</b>	0	<1
Potassium	ppm	ASTM D5185m >20	<b>1</b>	0	3
Water	%	ASTM D6304 >0.01	<b>0.001</b>	0.004	0.003
ppm Water	ppm	ASTM D6304 >100	<b>14</b>	47	32.1

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647		<b>8460</b>	3425	117370
Particles >6µm	ASTM D7647	>2500	<b>1747</b>	1026	▲ 36091
Particles >14µm	ASTM D7647	>320	<b>36</b>	44	▲ 1603
Particles >21µm	ASTM D7647	>80	<b>5</b>	8	▲ 233
Particles >38µm	ASTM D7647	>20	<b>1</b>	0	2
Particles >71µm	ASTM D7647	>4	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>-/18/15	<b>20/18/12</b>	19/17/13	▲ 24/22/18

## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.10	<b>0.028</b>	0.014	0.013

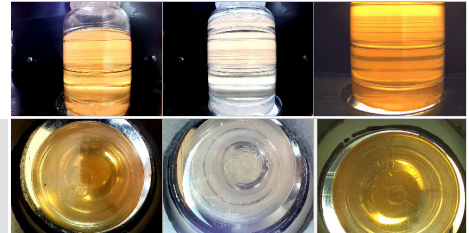


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	LIGHT
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.01	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	64.6	63.8	63.5

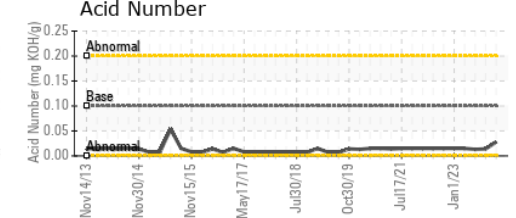
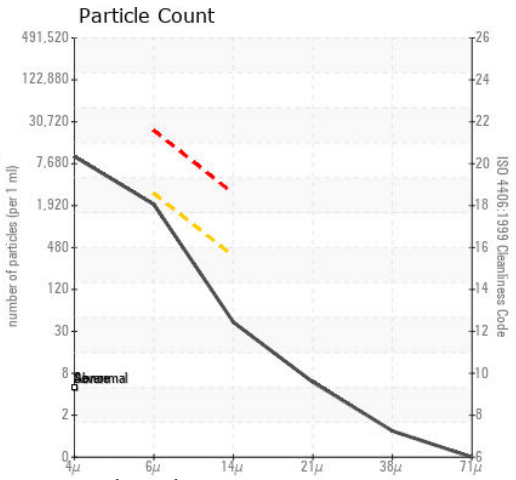
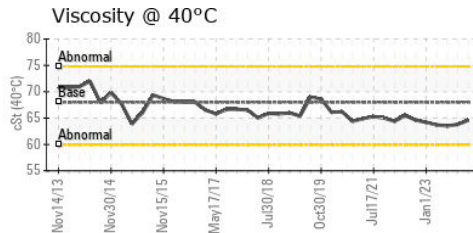
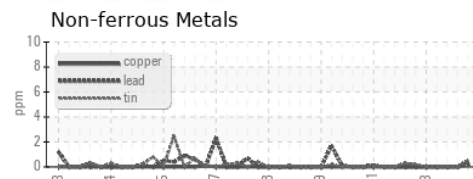
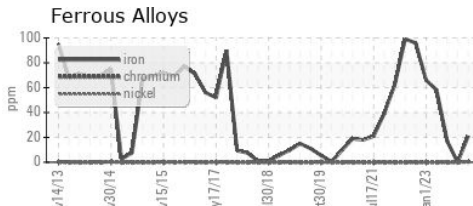
SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color



Bottom

## GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : USP234640

Lab Number : 06177274

Unique Number : 11023327

Test Package : IND 2

Received : 13 May 2024

Tested : 14 May 2024

Diagnosed : 15 May 2024 - Doug Bogart

JR SIMPLOT CO

3630 GATEWAY DR.

GRAND FORKS, ND

US 58201

Contact: GREG HUDERLE

greg.huderle@simplot.com

T:

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)

F: (701)780-7880