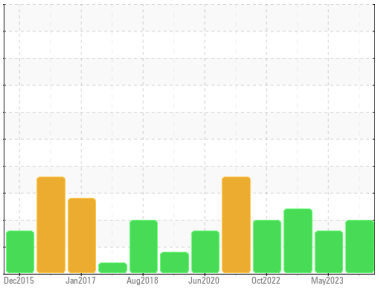
PROBLEM SUMMARY

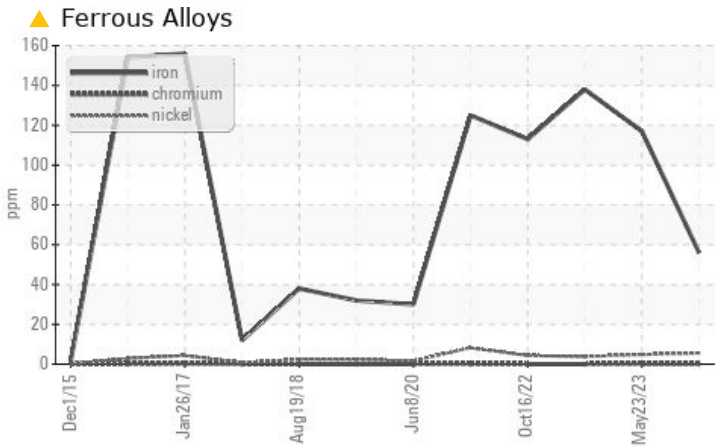
Sample Rating Trend



WEAR

Machine Id
COMP 6-PO (S/N 056-00985)
Component
Refrigeration Compressor
Fluid
FRICK COMPRESSOR OIL #3 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS

Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>8	▲ **56**	▲ 117	▲ 138
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ MODER
Appearance	scalar	*Visual	NORML	▲ **HAZY**	NORML	NORML

Customer Id: TYSTRA
Sample No.: USP0003504
Lab Number: 06016458
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@wearcheckusa.com

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Filter	---	---	?	We recommend you service the filters on this component.
Alert	---	---	?	We were unable to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS

23 May 2023 Diag: Doug Bogart

WEAR

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.The iron level is abnormal. There is a high amount of visible silt present in the sample. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

01 Dec 2022 Diag: Doug Bogart

DEGRADATION

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.The iron level is abnormal. Moderate concentration of visible dirt/debris present in the oil. An increase in the AN level is noted. Confirmed. The AN level is acceptable for this fluid.

view report

16 Oct 2022 Diag: Doug Bogart

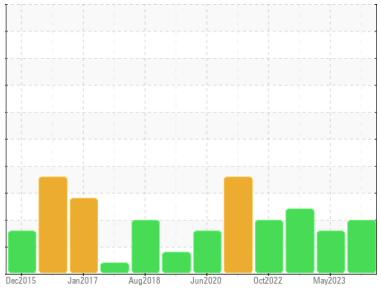
WEAR

Resample at the next service interval to monitor.The iron level is abnormal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
COMP 6-PO (S/N 056-00985)
Component
Refrigeration Compressor
Fluid
FRICK COMPRESSOR OIL #3 (--- GAL)

DIAGNOSIS

Recommendation
We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear
The iron level has decreased but is still abnormal.

Contamination
Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition
The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**USP0003504**	USP249526	USP239418
Sample Date		Client Info		**15 Nov 2023**	23 May 2023	01 Dec 2022
Machine Age	hrs	Client Info		**12193**	0	0
Oil Age	hrs	Client Info		**0**	0	0
Oil Changed		Client Info		**N/A**	N/A	N/A
Sample Status				**ABNORMAL**	ABNORMAL	ABNORMAL

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	▲ **56**	▲ 117	▲ 138
Chromium	ppm	ASTM D5185m	>2	**<1**	<1	0
Nickel	ppm	ASTM D5185m		**6**	5	4
Titanium	ppm	ASTM D5185m		**<1**	<1	0
Silver	ppm	ASTM D5185m	>2	**0**	0	0
Aluminum	ppm	ASTM D5185m	>3	**2**	0	<1
Lead	ppm	ASTM D5185m	>2	**<1**	2	2
Copper	ppm	ASTM D5185m	>8	**5**	4	4
Tin	ppm	ASTM D5185m	>4	**<1**	3	3
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	<1

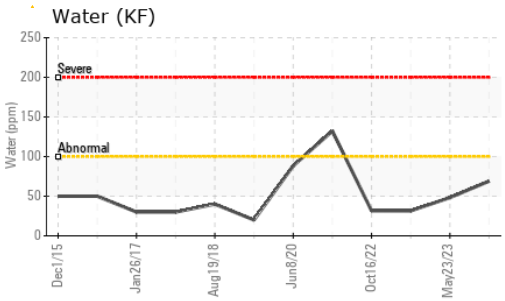
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**<1**	0	0
Manganese	ppm	ASTM D5185m		**<1**	0	1
Magnesium	ppm	ASTM D5185m		**0**	0	0
Calcium	ppm	ASTM D5185m		**1**	1	0
Phosphorus	ppm	ASTM D5185m		**0**	1	3
Zinc	ppm	ASTM D5185m		**0**	0	2
Sulfur	ppm	ASTM D5185m		**42**	0	55

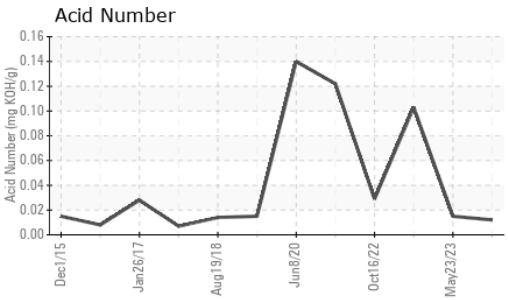
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**2**	2	2
Sodium	ppm	ASTM D5185m		**0**	<1	<1
Potassium	ppm	ASTM D5185m	>20	**1**	2	0
Water	%	ASTM D6304	>0.01	**0.006**	0.004	0.003
ppm Water	ppm	ASTM D6304	>100	**69**	48.2	31.5

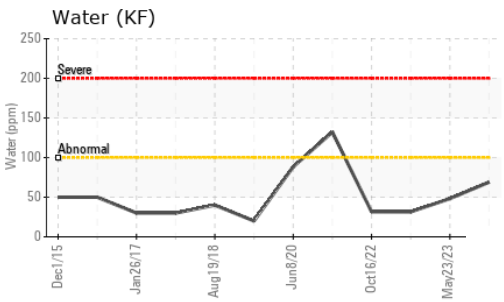
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	**---**	---	---
Particles >6µm		ASTM D7647	>2500	**---**	---	---
Particles >14µm		ASTM D7647	>320	**---**	---	---
Particles >21µm		ASTM D7647	>80	**---**	---	---
Particles >38µm		ASTM D7647	>20	**---**	---	---
Particles >71µm		ASTM D7647	>4	**---**	---	---
Oil Cleanliness		ISO 4406 (c)	>20/18/15	**---**	---	---

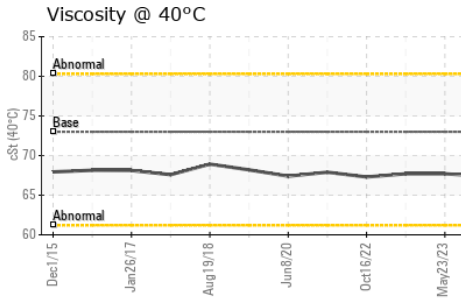
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974		**0.012**	0.015	▲ 0.103

OIL ANALYSIS REPORT



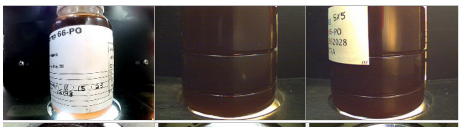




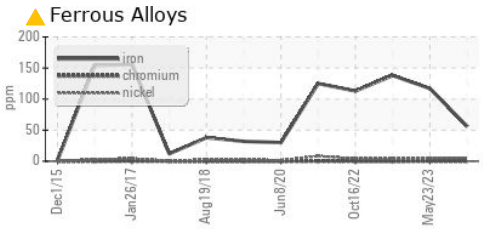


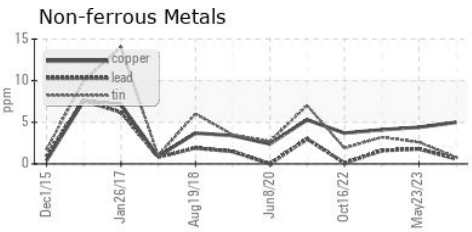
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	▲ HEAVY	NONE
Debris	scalar	*Visual	NONE	▲ **MODER**	NONE	▲ MODER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

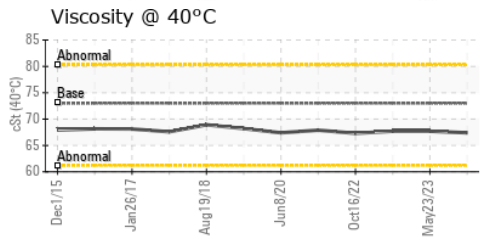
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	73	**67.4**	67.7	67.7

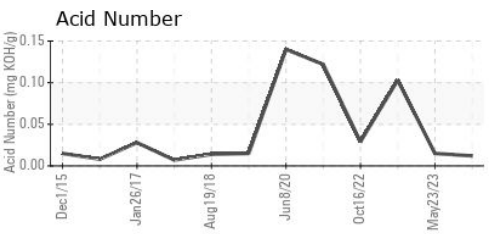
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP0003504
Lab Number : 06016458
Unique Number : 10755602
Test Package : IND 2

Received : 24 Nov 2023
Diagnosed : 27 Nov 2023
Diagnostician : Doug Bogart

SARA LEE - TRAVERSE CITY
2314 SYBRANT RD
TRAVERSE CITY, MI
US 49684
Contact:

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:
F: