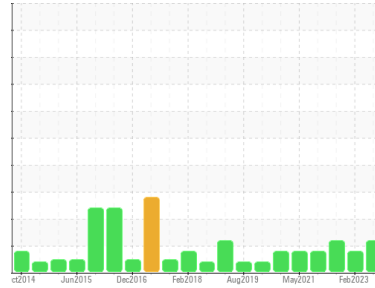




PROBLEM SUMMARY

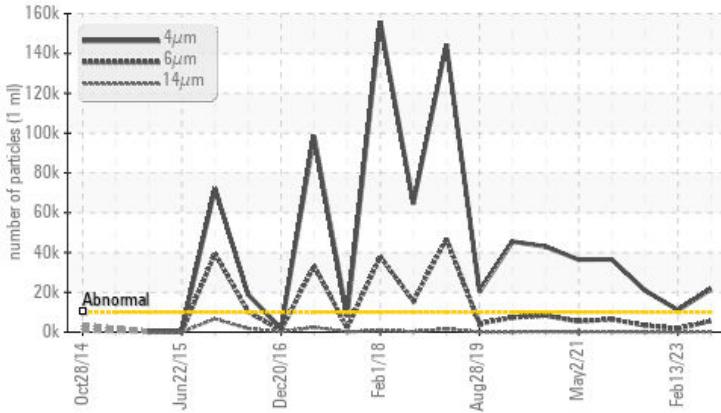
Sample Rating Trend



Area
ENGINE ROOM
 Machine Id
C-3 (S/N 3056E)
 Component
Refrigeration Compressor
 Fluid
FRICK COMPRESSOR OIL #11 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



RECOMMENDATION

Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status			ABNORMAL	ATTENTION	ABNORMAL
Particles >4µm	ASTM D7647	>10000	▲ 21501	▲ 11066	▲ 21030
Particles >6µm	ASTM D7647	>2500	▲ 5604	1774	▲ 3356
Oil Cleanliness	ISO 4406 (c)	>20/18/15	▲ 22/20/15	▲ 21/18/11	▲ 22/19/14

Customer Id: OSIOAK
 Sample No.: USP246276
 Lab Number: 05931568
 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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

13 Feb 2023 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of silt (particulates < 6 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



11 Jul 2022 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a high 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



28 Nov 2021 Diag: Doug Bogart

ISO



Resample at the next service interval to monitor. All component wear rates are normal. There is a high 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.

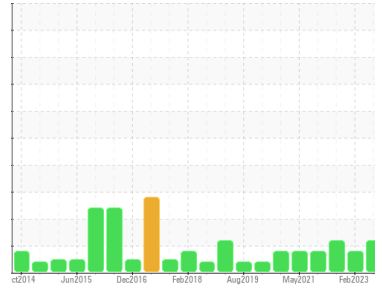
view report





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Area
ENGINE ROOM
Machine Id
C-3 (S/N 3056E)
Component
Refrigeration Compressor
Fluid
FRICK COMPRESSOR OIL #11 (--- GAL)

DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

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	USP246276	USP240564	USP238143
Sample Date	Client Info	21 Aug 2023	13 Feb 2023	11 Jul 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ATTENTION	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >8	0	0
Chromium	ppm	ASTM D5185m >2	0	0
Nickel	ppm	ASTM D5185m	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m >2	0	0
Aluminum	ppm	ASTM D5185m >3	0	<1
Lead	ppm	ASTM D5185m >2	0	0
Copper	ppm	ASTM D5185m >8	1	<1
Tin	ppm	ASTM D5185m >4	<1	0
Antimony	ppm	ASTM D5185m	---	---
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	0
Molybdenum	ppm	ASTM D5185m	0	0
Manganese	ppm	ASTM D5185m	<1	0
Magnesium	ppm	ASTM D5185m	<1	<1
Calcium	ppm	ASTM D5185m	<1	0
Phosphorus	ppm	ASTM D5185m	1	0
Zinc	ppm	ASTM D5185m	0	0
Sulfur	ppm	ASTM D5185m	2	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	1	2
Sodium	ppm	ASTM D5185m	2	0
Potassium	ppm	ASTM D5185m >20	0	<1
Water	%	ASTM D6304 >0.01	0.00	0.001
ppm Water	ppm	ASTM D6304 >100	0.00	9.4

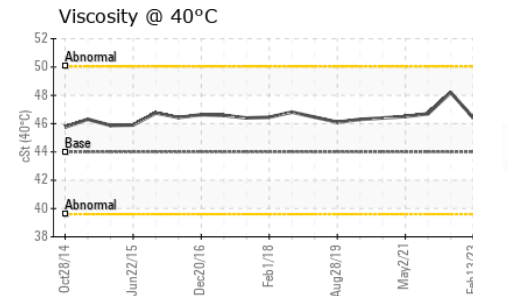
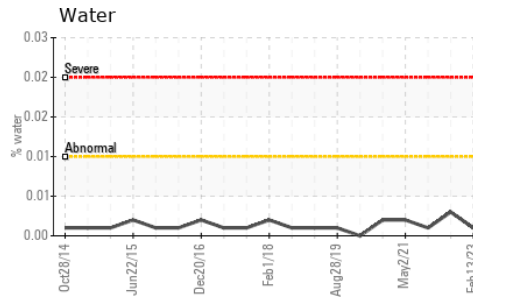
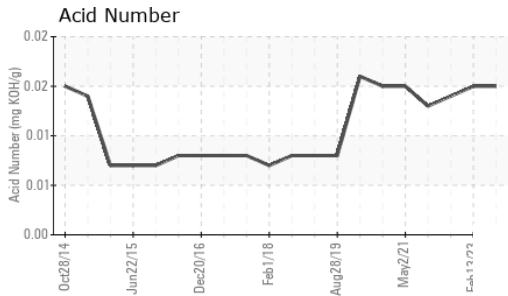
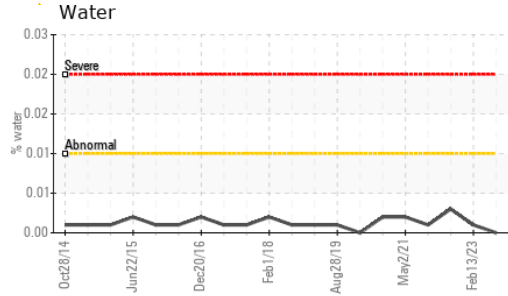
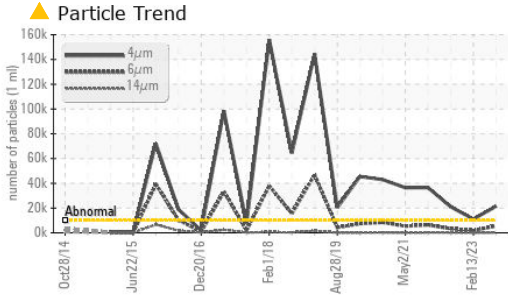
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 21501	▲ 11066	▲ 21030
Particles >6µm	ASTM D7647 >2500	▲ 5604	1774	▲ 3356
Particles >14µm	ASTM D7647 >320	185	14	104
Particles >21µm	ASTM D7647 >80	23	0	17
Particles >38µm	ASTM D7647 >20	0	0	0
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 22/20/15	▲ 21/18/11	▲ 22/19/14

FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974	0.015	0.015	0.014

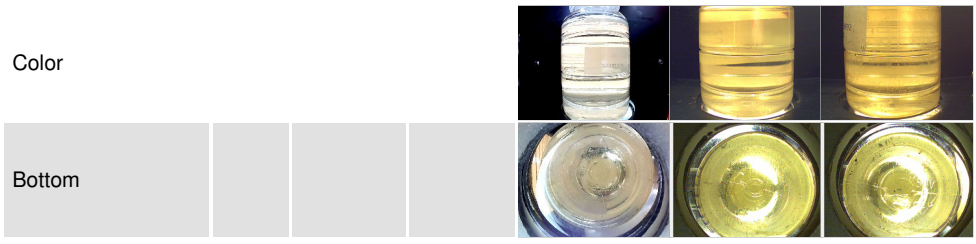
OIL ANALYSIS REPORT



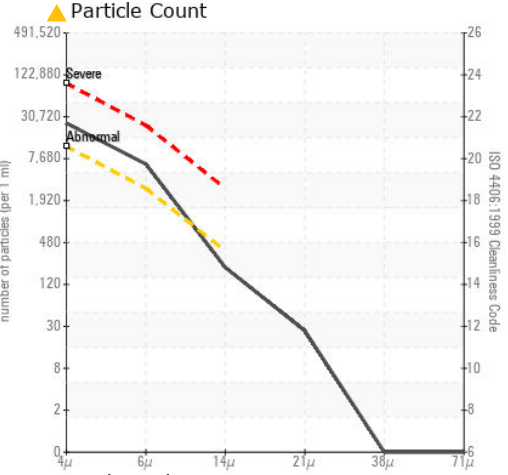
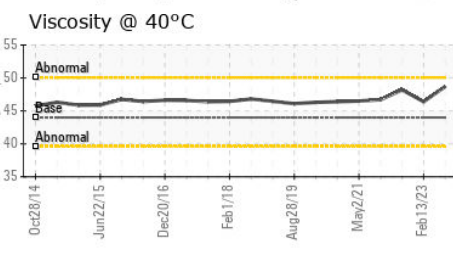
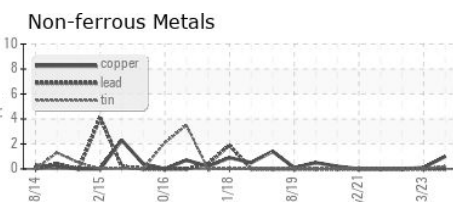
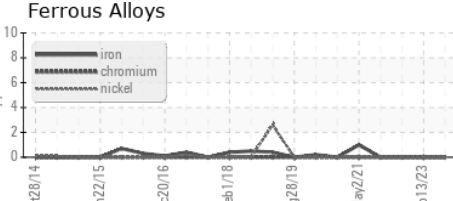
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	44.0	48.7	46.4

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : USP246276 **Received** : 22 Aug 2023
Lab Number : 05931568 **Diagnosed** : 23 Aug 2023
Unique Number : 10616839 **Diagnostician** : Doug Bogart
Test Package : IND 2

OSI INDUSTRIES LLC
 OAKLAND, IA
 US
 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)