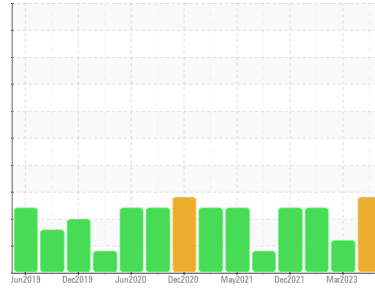
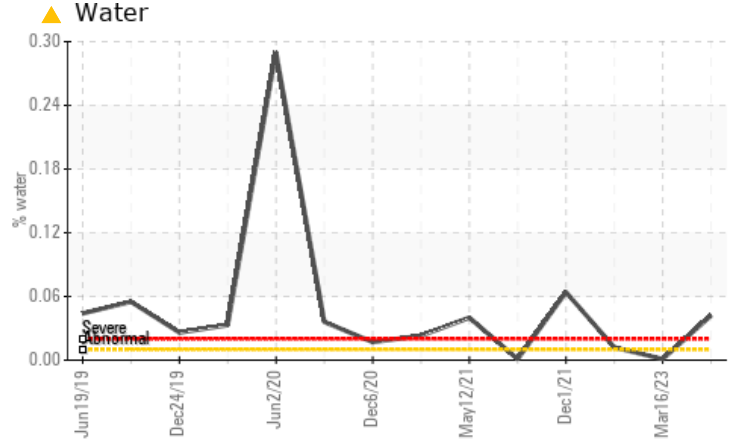
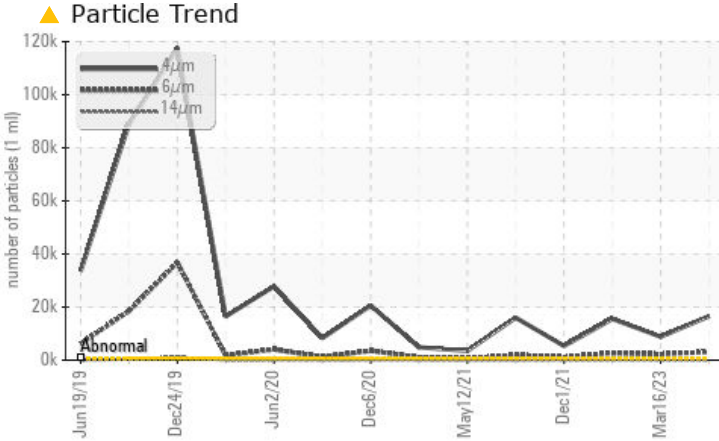


Area
HOPSON PLANT
Machine Id
C-4112

Component
Refrigeration Compressor
Fluid
FRICK COMPRESSOR OIL #12B (250 GAL)



COMPONENT CONDITION SUMMARY



RECOMMENDATION

We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.01	▲ 0.042	0.001	▲ 0.012
ppm Water	ppm	ASTM D6304	>100	▲ 424.2	0.00	▲ 122.4
Particles >4µm		ASTM D7647	>640	▲ 16549	▲ 8816	▲ 15546
Particles >6µm		ASTM D7647	>320	▲ 3117	▲ 2239	▲ 2686
Oil Cleanliness		ISO 4406 (c)	>16/15/13	▲ 21/19/13	▲ 20/18/13	▲ 21/19/13

Customer Id: TARHOPS
Sample No.: TO90002283
Lab Number: 05931602
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Angela Borella +1 800-237-1369
angela.borella@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 if applicable.

HISTORICAL DIAGNOSIS

16 Mar 2023 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. 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



08 Mar 2022 Diag: Don Baldrige

WATER



We recommend you service the filters on this component if applicable. 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. There is a trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



01 Dec 2021 Diag: Doug Bogart

WATER



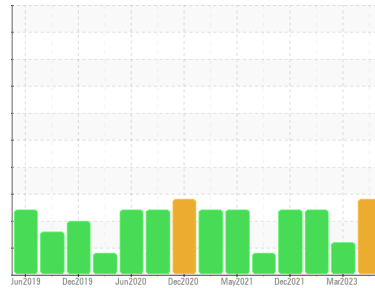
We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area
HOPSON PLANT
Machine Id
C-4112

Component
Refrigeration Compressor
Fluid
FRICK COMPRESSOR OIL #12B (250 GAL)



DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. 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. There is a light concentration of water 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	TO90002283	TO90002382	TO90001761
Sample Date	Client Info	15 Aug 2023	16 Mar 2023	08 Mar 2022
Machine Age	mths Client Info	3	3	3
Oil Age	mths Client Info	3	3	3
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	<1	<1	0
Chromium	ppm ASTM D5185m >2	0	0	0
Nickel	ppm ASTM D5185m	0	<1	0
Titanium	ppm ASTM D5185m	0	0	0
Silver	ppm ASTM D5185m >2	0	0	<1
Aluminum	ppm ASTM D5185m >3	0	1	<1
Lead	ppm ASTM D5185m >2	0	0	0
Copper	ppm ASTM D5185m >8	<1	0	0
Tin	ppm ASTM D5185m >4	1	<1	<1
Antimony	ppm ASTM D5185m	---	---	0
Vanadium	ppm ASTM D5185m	0	0	0
Cadmium	ppm ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm ASTM D5185m	0	0	2
Barium	ppm ASTM D5185m	0	0	0
Molybdenum	ppm ASTM D5185m	0	<1	0
Manganese	ppm ASTM D5185m	<1	<1	0
Magnesium	ppm ASTM D5185m	<1	2	0
Calcium	ppm ASTM D5185m	13	13	8
Phosphorus	ppm ASTM D5185m	20	23	33
Zinc	ppm ASTM D5185m	0	3	0
Sulfur	ppm ASTM D5185m	20	35	39

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >15	6	6	5
Sodium	ppm ASTM D5185m	<1	0	0
Potassium	ppm ASTM D5185m >20	<1	<1	0
Water	% ASTM D6304 >0.01	▲ 0.042	0.001	▲ 0.012
ppm Water	ppm ASTM D6304 >100	▲ 424.2	0.00	▲ 122.4

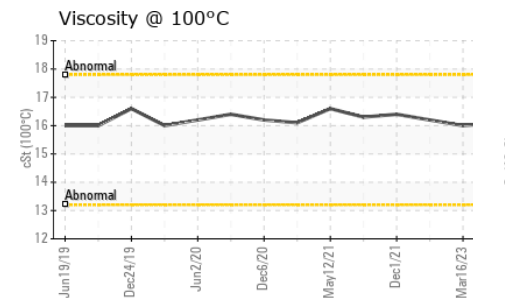
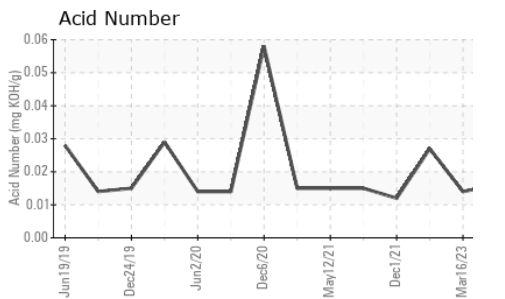
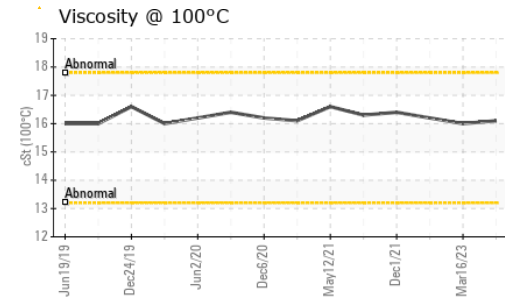
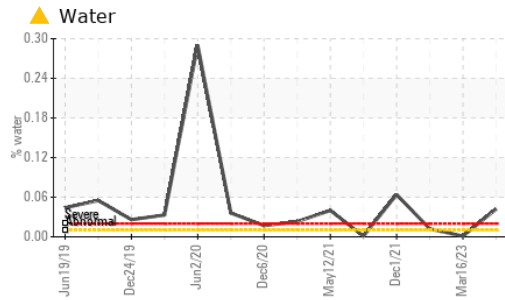
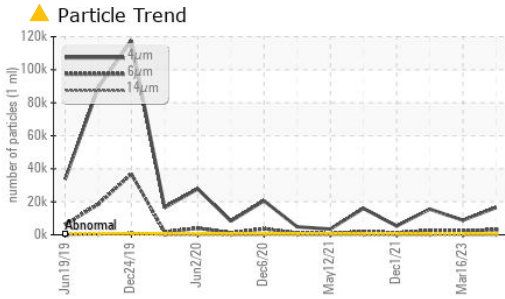
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >640	▲ 16549	▲ 8816	▲ 15546
Particles >6µm	ASTM D7647 >320	▲ 3117	▲ 2239	▲ 2686
Particles >14µm	ASTM D7647 >80	66	74	61
Particles >21µm	ASTM D7647 >20	14	13	14
Particles >38µm	ASTM D7647 >4	1	2	0
Particles >71µm	ASTM D7647 >3	0	1	0
Oil Cleanliness	ISO 4406 (c) >16/15/13	▲ 21/19/13	▲ 20/18/13	▲ 21/19/13

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974	0.016	0.014	0.027

OIL ANALYSIS REPORT

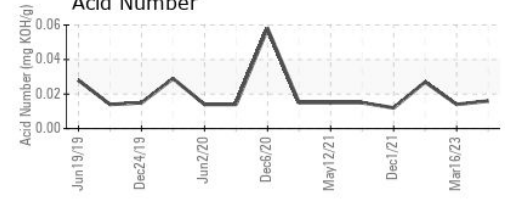
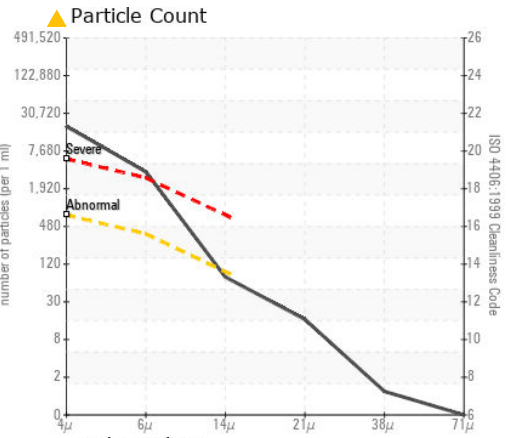
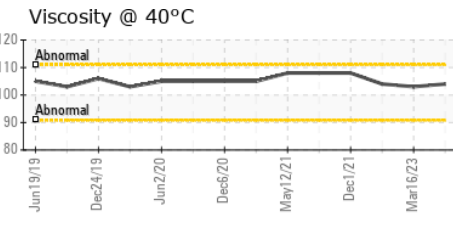
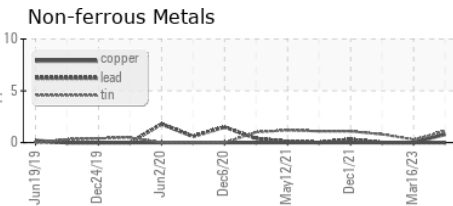
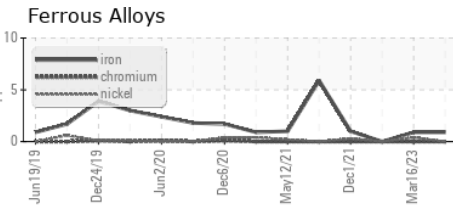


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	104	103	104
Visc @ 100°C	cSt	ASTM D445	16.1	16.0	16.2
Viscosity Index (VI)	Scale	ASTM D2270	166	166	167

SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO90002283 **Received** : 22 Aug 2023
Lab Number : 05931602 **Diagnosed** : 24 Aug 2023
Unique Number : 10616873 **Diagnostician** : Angela Borella
Test Package : IND 2 (Additional Tests: KV100, PrtCount, VI)

TARGA RESOURCES - HOPSON
 13110 EAST CR 230
 MIDLAND, TX
 US 79706
 Contact: KENNETH BATLA
 kbatla@targaresources.com

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)