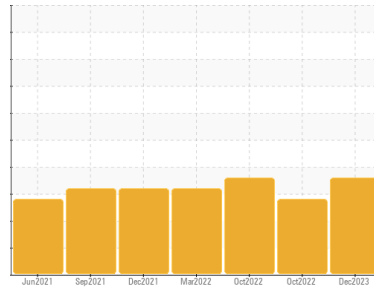


PROBLEM SUMMARY

Sample Rating Trend



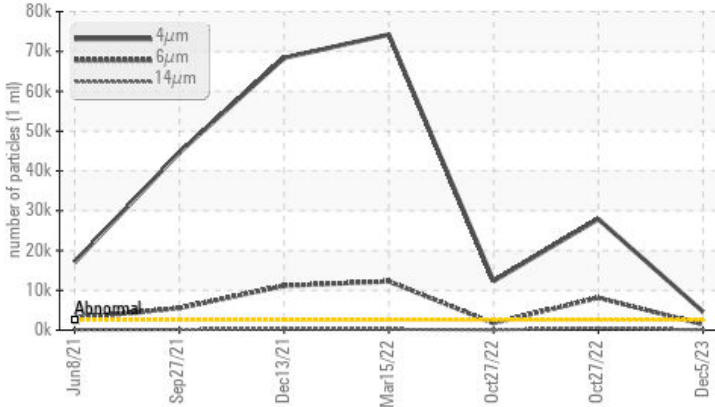
WATER



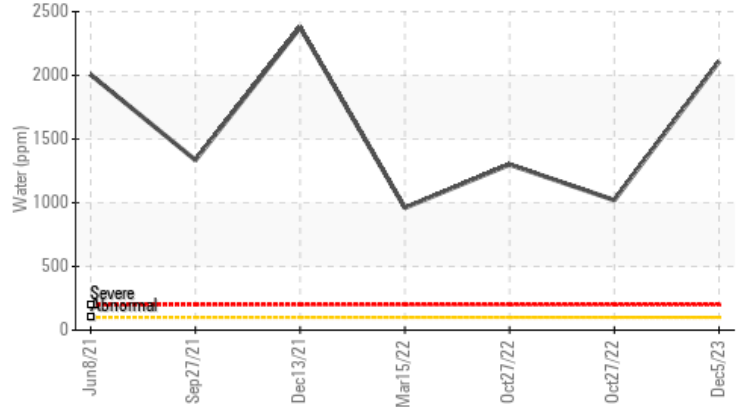
Area
Jackson County 4 Plant/Cryogenic/Compressor
 Machine Id
C-4162 (S/N 10241B31476208)
 Component
Refrigeration Compressor
 Fluid
SUMMIT PGS-100 (250 GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water (KF)



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.01	▲ 0.210	▲ 0.102	▲ 0.130
ppm Water	ppm	ASTM D6304	>100	▲ 2108	▲ 1020	▲ 1300
Particles >4µm		ASTM D7647	>2500	▲ 4628	▲ 12332	▲ 27894
Particles >6µm		ASTM D7647	>320	▲ 1425	▲ 1754	▲ 8123
Particles >14µm		ASTM D7647	>80	▲ 85	75	▲ 474
Particles >21µm		ASTM D7647	>20	▲ 24	11	▲ 64
Oil Cleanliness		ISO 4406 (c)	>18/15/13	▲ 19/18/14	▲ 21/18/13	▲ 22/20/16

Customer Id: ETCJCTY
 Sample No.: TO50001818
 Lab Number: 06026538
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
 Jonathan Hester +1 919-379-4092 x4092
jhester@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.

HISTORICAL DIAGNOSIS

27 Oct 2022 Diag: Jonathan Hester

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



27 Oct 2022 Diag: Jonathan Hester

WATER



We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates 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



15 Mar 2022 Diag: Angela Borella

WATER



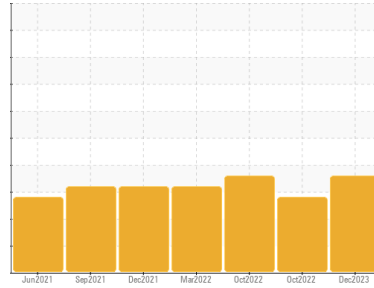
We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.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

view report



OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Area
Jackson County 4 Plant/Cryogenic/Compressor
 Machine Id
C-4162 (S/N 10241B31476208)
 Component
Refrigeration Compressor
 Fluid
SUMMIT PGS-100 (250 GAL)

DIAGNOSIS

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

Wear
 All component wear rates are normal.

Contamination
 There is a high amount of particulates 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		TO50001818	TO90002062	TO90002070
Sample Date	Client Info		05 Dec 2023	27 Oct 2022	27 Oct 2022
Machine Age	hrs	Client Info	0	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	1	4	4
Chromium	ppm	ASTM D5185m >2	0	0	0
Nickel	ppm	ASTM D5185m	<1	2	2
Titanium	ppm	ASTM D5185m	<1	0	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >3	<1	<1	<1
Lead	ppm	ASTM D5185m >2	0	<1	0
Copper	ppm	ASTM D5185m >8	<1	<1	0
Tin	ppm	ASTM D5185m >4	1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	<1	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 2	0	0	0
Barium	ppm	ASTM D5185m 0	0	0	0
Molybdenum	ppm	ASTM D5185m 0	0	0	0
Manganese	ppm	ASTM D5185m 0	0	<1	<1
Magnesium	ppm	ASTM D5185m 0	0	0	<1
Calcium	ppm	ASTM D5185m 0	0	10	7
Phosphorus	ppm	ASTM D5185m 0	1089	195	373
Zinc	ppm	ASTM D5185m 0	44	89	78
Sulfur	ppm	ASTM D5185m 5	0	28	15

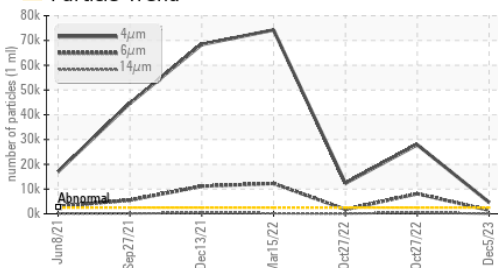
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<1	2	1
Sodium	ppm	ASTM D5185m	5	17	10
Potassium	ppm	ASTM D5185m >20	<1	1	1
Water	%	ASTM D6304 >0.01	▲ 0.210	▲ 0.102	▲ 0.130
ppm Water	ppm	ASTM D6304 >100	▲ 2108	▲ 1020	▲ 1300

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>2500	▲ 4628	▲ 12332	▲ 27894
Particles >6µm	ASTM D7647	>320	▲ 1425	▲ 1754	▲ 8123
Particles >14µm	ASTM D7647	>80	▲ 85	75	▲ 474
Particles >21µm	ASTM D7647	>20	▲ 24	11	▲ 64
Particles >38µm	ASTM D7647	>4	0	1	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>18/15/13	▲ 19/18/14	▲ 21/18/13	▲ 22/20/16

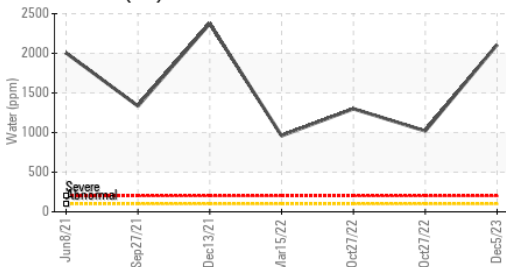
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974 0.1	0.045	0.047	0.08

OIL ANALYSIS REPORT

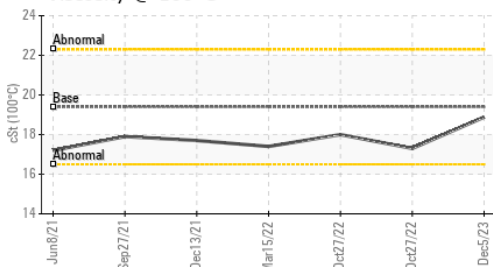
▲ Particle Trend



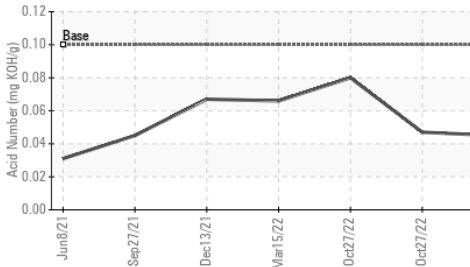
▲ Water (KF)



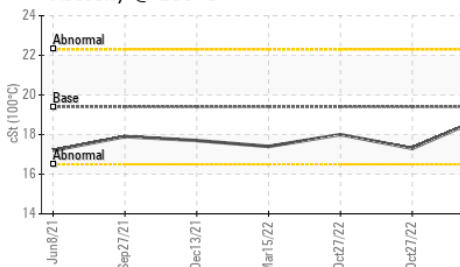
▲ Viscosity @ 100°C



▲ Acid Number



▲ Viscosity @ 100°C

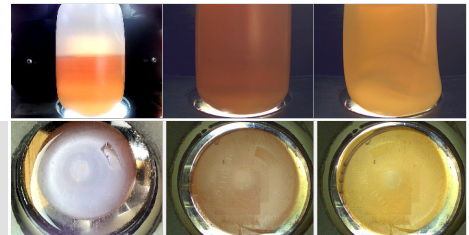


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	100	93.7	97.6
Visc @ 100°C	cSt	ASTM D445	19.4	18.88	18.0
Viscosity Index (VI)	Scale	ASTM D2270	218	224	204

SAMPLE IMAGES

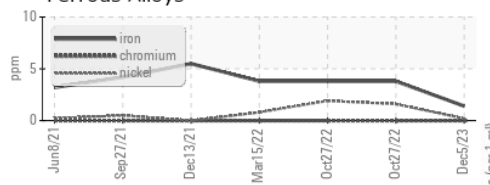
Color



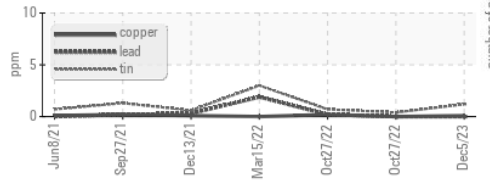
Bottom

GRAPHS

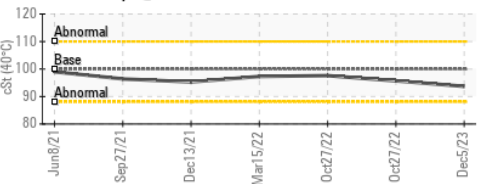
Ferrous Alloys



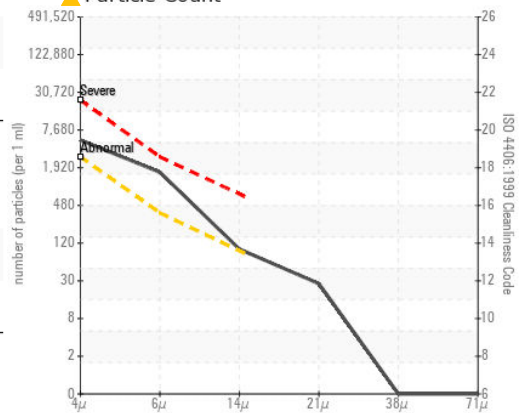
Non-ferrous Metals



Viscosity @ 40°C



▲ Particle Count



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001818 **Received** : 06 Dec 2023
Lab Number : 06026538 **Diagnosed** : 12 Dec 2023
Unique Number : 10776329 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PrtCount, VI)

ETC - JACKSON COUNTY

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)

US
Contact: Service Manager

T:
F: