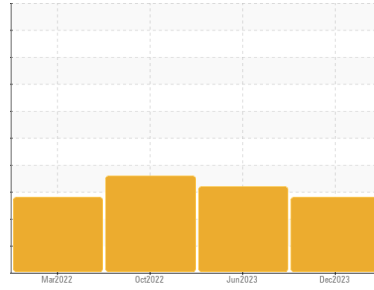


PROBLEM SUMMARY

Sample Rating Trend



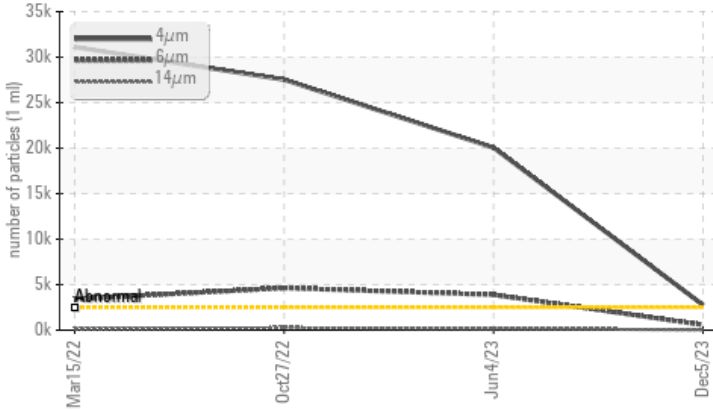
WATER



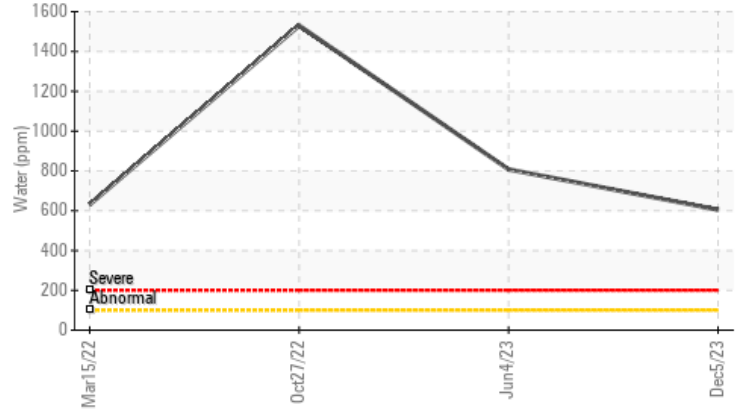
Area
Jackson County 1 Plant/Cryogenic/Compressor
Machine Id
C-161
Component
Refrigeration Compressor
Fluid
SUMMIT PGS-100 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water (KF)



RECOMMENDATION

No corrective action is recommended at this time.
Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.01	▲ 0.060	▲ 0.080	▲ 0.153
ppm Water	ppm	ASTM D6304	>100	▲ 605	▲ 807.6	▲ 1530
Particles >4µm		ASTM D7647	>2500	▲ 2769	▲ 20053	▲ 27533
Particles >6µm		ASTM D7647	>320	▲ 581	▲ 3887	▲ 4627
Oil Cleanliness		ISO 4406 (c)	>18/15/13	▲ 19/16/12	▲ 22/19/15	▲ 22/19/15

Customer Id: ETCJCTY
Sample No.: TO50001817
Lab Number: 06026536
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

04 Jun 2023 Diag: Jonathan Hester

WATER



We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of particulates present in the oil. There is a trace of moisture present in the oil. The condition of the oil is acceptable for the time in service.

view report



27 Oct 2022 Diag: Don Baldrige

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. We recommend an early resample to monitor this condition. 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 condition of the oil is acceptable for the time in service.

view report

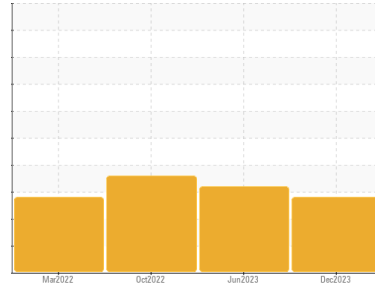


OIL ANALYSIS REPORT

Sample Rating Trend

WATER

Area
Jackson County 1 Plant/Cryogenic/Compressor
 Machine Id
C-161
 Component
Refrigeration Compressor
 Fluid
SUMMIT PGS-100 (--- GAL)



DIAGNOSIS

- Recommendation**
No corrective action is recommended at this time. Resample at the next service interval to monitor.
- Wear**
All component wear rates are normal.
- Contamination**
There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a trace of moisture 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	TO50001817	TO90002489	TO90002051
Sample Date	Client Info	05 Dec 2023	04 Jun 2023	27 Oct 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		ATTENTION	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >8	7	4	4
Chromium	ppm	ASTM D5185m >2	0	0	0
Nickel	ppm	ASTM D5185m	0	0	2
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m >2	0	0	0
Aluminum	ppm	ASTM D5185m >3	<1	<1	<1
Lead	ppm	ASTM D5185m >2	0	0	0
Copper	ppm	ASTM D5185m >8	0	0	<1
Tin	ppm	ASTM D5185m >4	1	<1	<1
Vanadium	ppm	ASTM D5185m	<1	0	<1
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m 2	0	0	<1
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	<1	<1
Calcium	ppm	ASTM D5185m 0	4	12	14
Phosphorus	ppm	ASTM D5185m 0	142	13	13
Zinc	ppm	ASTM D5185m 0	139	45	49
Sulfur	ppm	ASTM D5185m 5	0	27	23

CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	<1	2	7
Sodium	ppm	ASTM D5185m	16	11	12
Potassium	ppm	ASTM D5185m >20	<1	2	1
Water	%	ASTM D6304 >0.01	▲ 0.060	▲ 0.080	▲ 0.153
ppm Water	ppm	ASTM D6304 >100	▲ 605	▲ 807.6	▲ 1530

FLUID CLEANLINESS

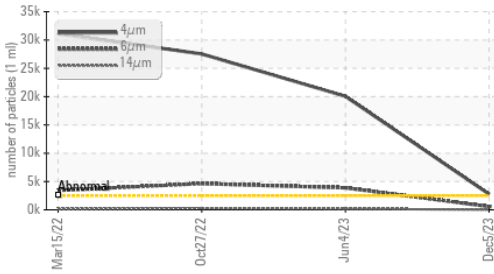
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >2500	▲ 2769	▲ 20053	▲ 27533
Particles >6µm	ASTM D7647 >320	▲ 581	▲ 3887	▲ 4627
Particles >14µm	ASTM D7647 >80	31	▲ 161	▲ 260
Particles >21µm	ASTM D7647 >20	7	19	▲ 57
Particles >38µm	ASTM D7647 >4	1	1	3
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >18/15/13	▲ 19/16/12	▲ 22/19/15	▲ 22/19/15

FLUID DEGRADATION

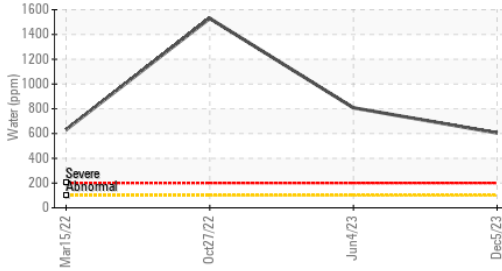
method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D974 0.1	0.112	0.118	0.05

OIL ANALYSIS REPORT

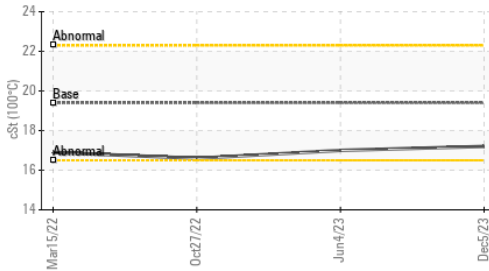
▲ Particle Trend



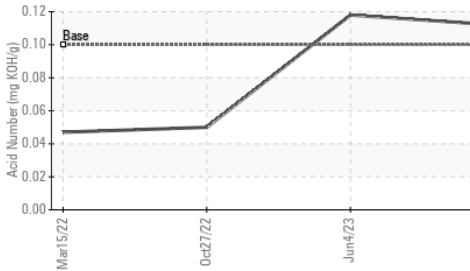
▲ Water (KF)



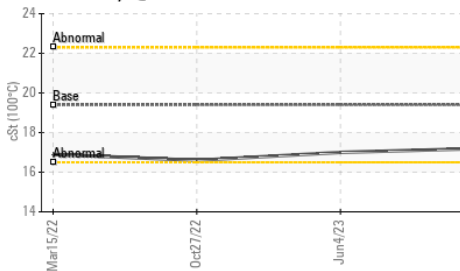
▲ Viscosity @ 100°C



▲ Acid Number



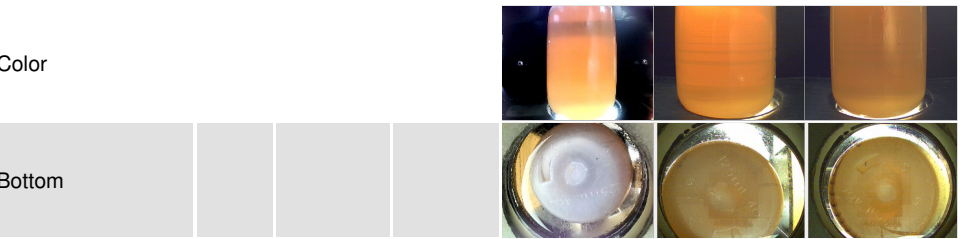
▲ Viscosity @ 100°C



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

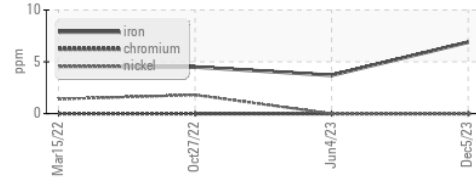
FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	93.6	96.44
Visc @ 100°C	cSt	ASTM D445	19.4	17.2	17.0
Viscosity Index (VI)	Scale	ASTM D2270	218	201	192

SAMPLE IMAGES

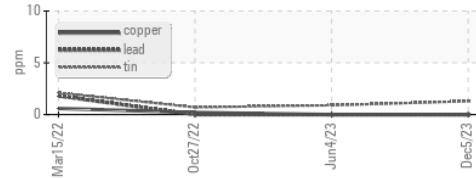


GRAPHS

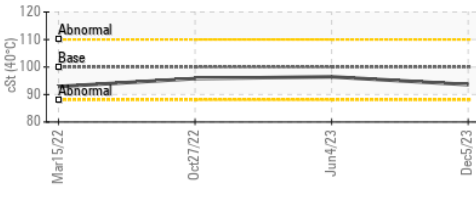
Ferrous Alloys



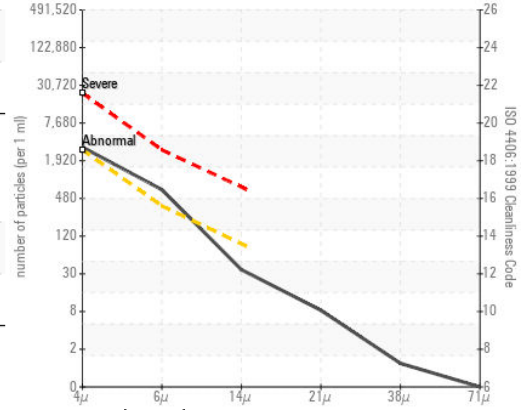
Non-ferrous Metals



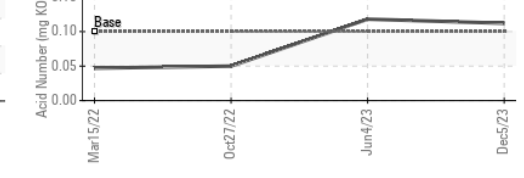
Viscosity @ 40°C



▲ Particle Count



Acid Number



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : TO50001817 **Received** : 06 Dec 2023
Lab Number : 06026536 **Diagnosed** : 07 Dec 2023
Unique Number : 10776327 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KV100, PrtCount, VI)

ETC - JACKSON COUNTY
 US
 Contact: Service Manager

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)