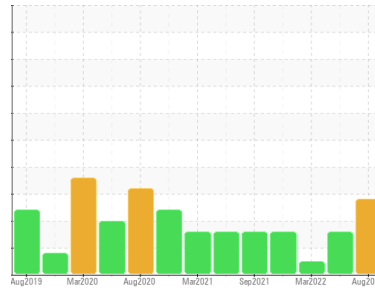


# PROBLEM SUMMARY

Area  
**PEMBROOK PLANT**  
 Machine Id  
**C-4113 (S/N 10241K85567414)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**SUMMIT PGI 100 (250 GAL)**

Sample Rating Trend

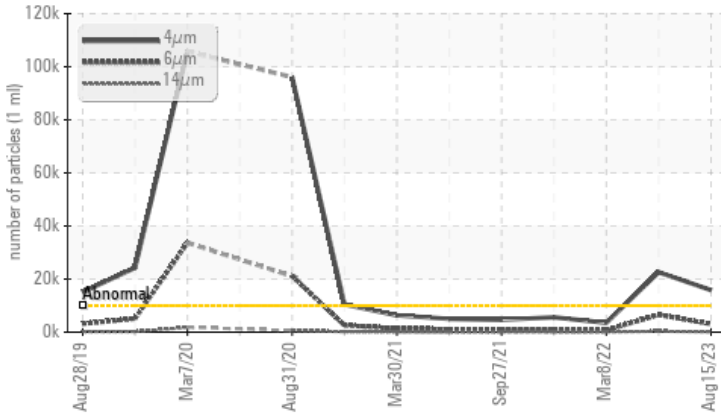


**WATER**

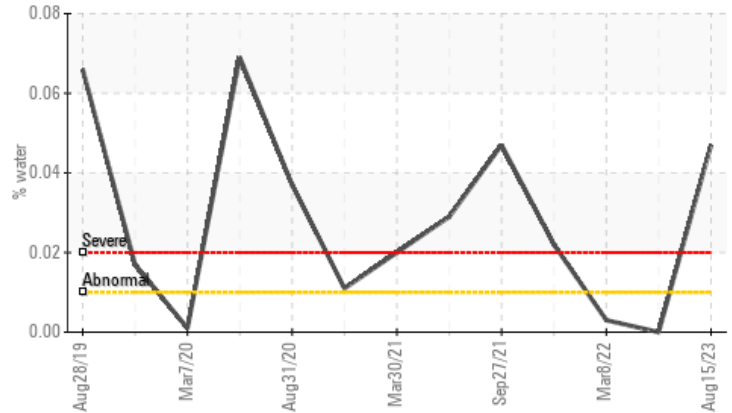


## COMPONENT CONDITION SUMMARY

▲ Particle Trend



▲ Water



## RECOMMENDATION

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

## PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	ABNORMAL	NORMAL
Water	%	ASTM D6304	>0.01	▲ <b>0.047</b>	0.00	0.003
ppm Water	ppm	ASTM D6304	>100	▲ <b>470.7</b>	0.00	33.9
Particles >4µm		ASTM D7647	>10000	▲ <b>15831</b>	▲ 22600	3522
Particles >6µm		ASTM D7647	>2500	▲ <b>3075</b>	▲ 6566	717
Oil Cleanliness		ISO 4406 (c)	>20/18/15	▲ <b>21/19/14</b>	▲ 22/20/16	19/17/13

Customer Id: TARPEMB  
 Sample No.: TO90002259  
 Lab Number: 05931574  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
 Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 15 Mar 2023 Diag: Angela Borella

ISO



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. 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

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



### 30 Nov 2021 Diag: Doug Bogart

WATER

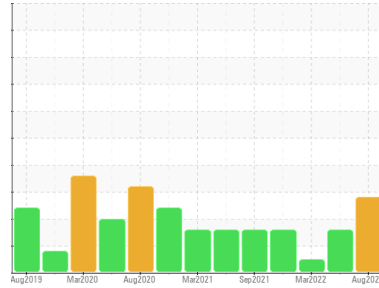


No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



Area  
**PEMBROOK PLANT**  
 Machine Id  
**C-4113 (S/N 10241K85567414)**  
 Component  
**Refrigeration Compressor**  
 Fluid  
**SUMMIT PGI 100 (250 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	<b>TO90002259</b>	TO90002338	TO90000830
Sample Date	Client Info	<b>15 Aug 2023</b>	15 Mar 2023	08 Mar 2022
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	<b>N/A</b>	N/A	N/A
Sample Status		<b>ATTENTION</b>	ABNORMAL	NORMAL

**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	3
Barium	ppm	ASTM D5185m	0	0	0
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m	2	6	0
Calcium	ppm	ASTM D5185m	39	38	40
Phosphorus	ppm	ASTM D5185m	458	343	33
Zinc	ppm	ASTM D5185m	0	7	<1
Sulfur	ppm	ASTM D5185m	149	102	41

**CONTAMINANTS**

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >15	5	5	5
Sodium	ppm	ASTM D5185m	1	0	0
Potassium	ppm	ASTM D5185m >20	1	<1	0
Water	%	ASTM D6304 >0.01	▲ 0.047	0.00	0.003
ppm Water	ppm	ASTM D6304 >100	▲ 470.7	0.00	33.9

**FLUID CLEANLINESS**

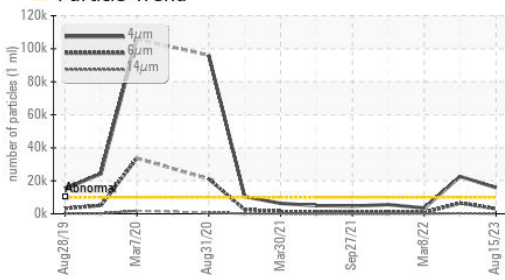
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	▲ 15831	▲ 22600	3522
Particles >6µm	ASTM D7647 >2500	▲ 3075	▲ 6566	717
Particles >14µm	ASTM D7647 >320	115	▲ 324	45
Particles >21µm	ASTM D7647 >80	24	62	9
Particles >38µm	ASTM D7647 >20	1	1	0
Particles >71µm	ASTM D7647 >4	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/18/15	▲ 21/19/14	▲ 22/20/16	19/17/13

**FLUID DEGRADATION**

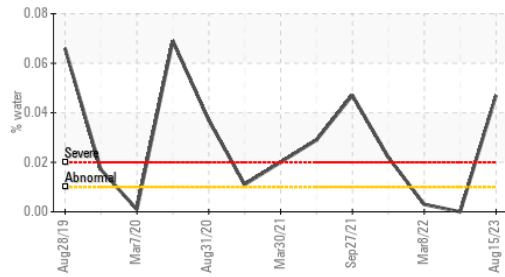
method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D974	<b>0.015</b>	0.056	0.07

# OIL ANALYSIS REPORT

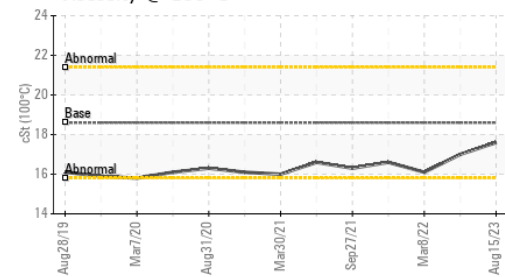
## ▲ Particle Trend



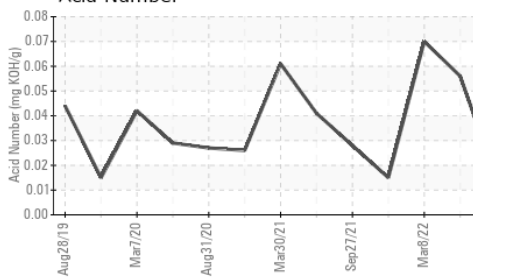
## ▲ Water



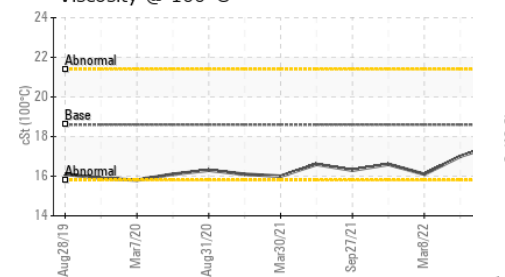
## ▲ Viscosity @ 100°C



## ▲ Acid Number



## ▲ Viscosity @ 100°C



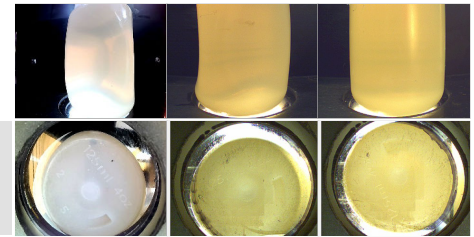
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	107	105
Visc @ 100°C	cSt	ASTM D445	18.6	17.6	17.0
Viscosity Index (VI)	Scale	ASTM D2270	185	181	176

SAMPLE IMAGES	method	limit/base	current	history1	history2
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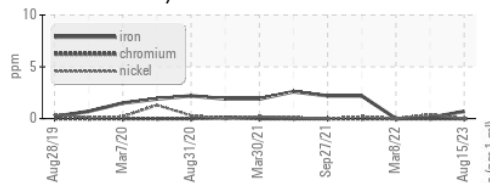
Color

Bottom

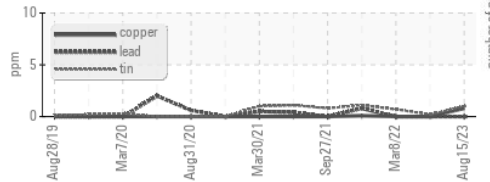


## GRAPHS

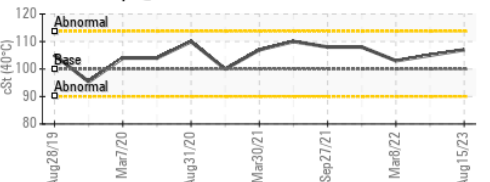
### Ferrous Alloys



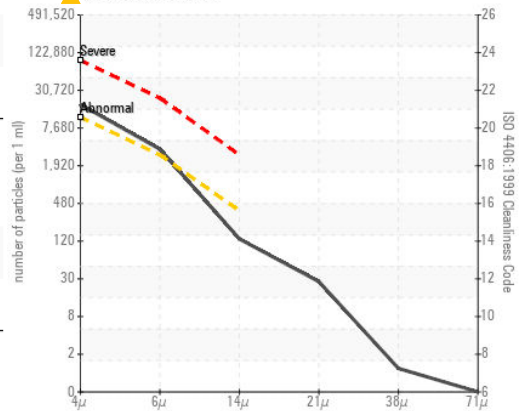
### Non-ferrous Metals



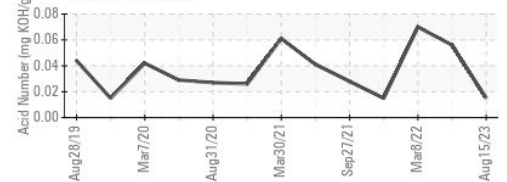
### Viscosity @ 40°C



### ▲ Particle Count



### ▲ Acid Number



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : TO90002259 **Received** : 22 Aug 2023  
**Lab Number** : 05931574 **Diagnosed** : 24 Aug 2023  
**Unique Number** : 10616845 **Diagnostician** : Don Baldrige  
**Test Package** : IND 2 ( Additional Tests: KV100, PrtCount, VI )

**TARGA RESOURCES - PEMBROOK**  
 1500 CR 135  
 MIDKIFF, TX  
 US 79755  
 Contact: AARON BRADEN  
 abraden@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)

T:  
F: