

#### **PROBLEM SUMMARY**

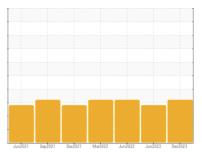
Sample Rating Trend

**WATER** 

### Jackson County 4 Plant/Cryogenic/Compressor C-4163 (S/N 10241B31476209)

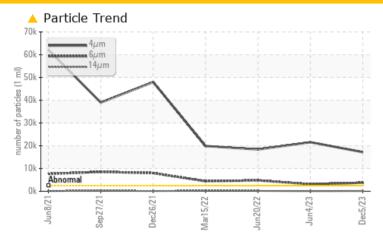
**Refrigeration Compressor** 

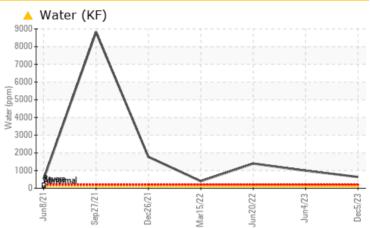
**SUMMIT PGS-100 (250 GAL)** 





#### **COMPONENT CONDITION SUMMARY**





#### 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	<b>△</b> 0.063	▲ 0.099	<b>△</b> 0.139			
ppm Water	ppm	ASTM D6304	>100	<b>△</b> 638	<b>△</b> 994.1	<b>▲</b> 1398.1			
Particles >4µm		ASTM D7647	>2500	<u> </u>	<u>^</u> 21550	<b>▲</b> 18393			
Particles >6µm		ASTM D7647	>320	<b>3740</b>	▲ 3099	<b>▲</b> 4768			
Particles >14µm		ASTM D7647	>80	<u> </u>	41	<b>▲</b> 171			
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<b>21/19/14</b>	22/19/13	<u>\</u> 21/19/15			

**Customer Id: ETCJCTY** Sample No.: TO50001819 Lab Number: 06026534 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 ihester@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

#### 04 Jun 2023 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 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.



#### 20 Jun 2022 Diag: Don Baldridge

#### WAIER



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 moderate 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 trace of moisture present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.





#### **OIL ANALYSIS REPORT**

Sample Rating Trend



٨٣٥٥

## Jackson County 4 Plant/Cryogenic/Compressor C-4163 (S/N 10241B31476209)

Component

**Refrigeration Compressor** 

**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 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.

						`
		Jun2021	Sep2021 Dec2021	Mar2022 Jun2022 Jun2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50001819	TO90002078	TO90002039
Sample Date		Client Info		05 Dec 2023	04 Jun 2023	20 Jun 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	7	7	3
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	<1	0
Silver	ppm	ASTM D5185m	>2	0	0	2
Aluminum	ppm	ASTM D5185m	>3	<1	<1	<1
Lead	ppm	ASTM D5185m	>2	0	0	<1
Copper	ppm	ASTM D5185m	>8	0	0	<1
Tin	ppm	ASTM D5185m	>4	1	<1	1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	0	4
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	0
Calcium	ppm	ASTM D5185m	0	<1	10	5
Phosphorus	ppm	ASTM D5185m	0	420	392	435
Zinc	ppm	ASTM D5185m	0	98	105	73
Sulfur	ppm	ASTM D5185m	5	0	0	4
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	<1	1
Sodium	ppm	ASTM D5185m		11	9	8
Potassium	ppm	ASTM D5185m	>20	<1	3	0
Water	%	ASTM D6304	>0.01	<b>△</b> 0.063	△ 0.099	<b>△</b> 0.139
ppm Water	ppm	ASTM D6304	>100	<b>△</b> 638	<b>△</b> 994.1	▲ 1398.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> </u>	<u> </u>	<u>▲</u> 18393
Particles >6µm		ASTM D7647	>320	<u>▲</u> 3740	▲ 3099	<b>▲</b> 4768
Particles >14μm		ASTM D7647	>80	<u> </u>	41	<b>▲</b> 171
Particles >21µm		ASTM D7647	>20	19	6	17
Particles >38μm		ASTM D7647	>4	0	1	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<u>21/19/14</u>	<u>22/19/13</u>	<u>21/19/15</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D974 0.1

0.11

0.114

0.064



#### **OIL ANALYSIS REPORT**

