

PROBLEM SUMMARY

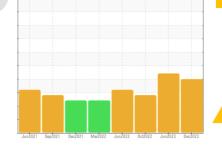
Sample Rating Trend

WATER

Jackson County 3 Plant/Cryogenic/Compressor C-3163 (S/N 10241B31315891)

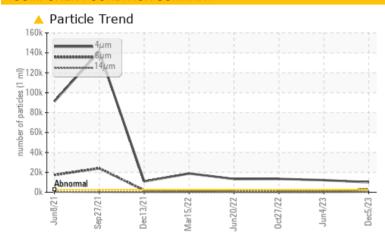
Refrigeration Compressor

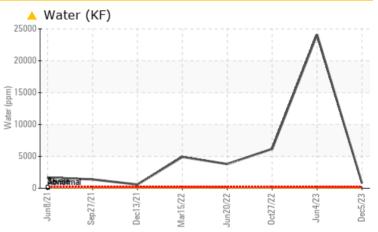
SUMMIT PGS-100 (250 GAL)





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	SEVERE	ABNORMAL			
Water	%	ASTM D6304	>0.01	△ 0.078	2.411	△ 0.618			
ppm Water	ppm	ASTM D6304	>100	790	24114.1	△ 6180			
Particles >4µm		ASTM D7647	>2500	10078	<u>12165</u>	△ 13439			
Particles >6μm		ASTM D7647	>320	2762	<u></u> ▲ 850	<u>▲</u> 1423			
Particles >14µm		ASTM D7647	>80	<u> </u>	15	31			
Particles >21µm		ASTM D7647	>20	<u>^</u> 88	4	4			
Particles >38µm		ASTM D7647	>4	<u>^</u> 7	1	0			
Oil Cleanliness		ISO 4406 (c)	>18/15/13	21/19/15	▲ 21/17/11	<u>\</u> 21/18/12			

Customer Id: ETCJCTY Sample No.: TO50001822 Lab Number: 06026535 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 advise that you follow the water drain-off procedure for this component, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. 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 high concentration of water present in the oil. The AN level is acceptable for this fluid.



27 Oct 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 silt (particulates < 14 microns in size) 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

20 Jun 2022 Diag: Don Baldridge

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 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.





OIL ANALYSIS REPORT

Sample Rating Trend



Jackson County 3 Plant/Cryogenic/Compressor C-3163 (S/N 10241B31315891)

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.

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

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

		Jun2021 S	ep2021 Dec2021 Mar20	22 Jun2022 Oct2022 Jun2023	Dec2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50001822	TO90002073	TO90002069
Sample Date		Client Info		05 Dec 2023	04 Jun 2023	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	SEVERE	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	5	4	4
Chromium	ppm	ASTM D5185m	>2	0	0	0
Nickel	ppm	ASTM D5185m		<1	0	3
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	<1	<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	0	0	3
Phosphorus	ppm	ASTM D5185m	0	1258	451	347
Zinc	ppm	ASTM D5185m	0	37	29	43
Sulfur	ppm	ASTM D5185m	5	0	0	30
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<1	3	5
Sodium	ppm	ASTM D5185m		16	6	5
Potassium	ppm	ASTM D5185m		<1	3	<1
Water	%	ASTM D6304	>0.01	<u> </u>	2.411	△ 0.618
ppm Water	ppm	ASTM D6304	>100	<u>^</u> 790	24114.1	▲ 6180
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>2500	<u> </u>	<u>12165</u>	<u>13439</u>
Particles >6μm		ASTM D7647	>320	<u>^</u> 2762	<u>▲</u> 850	<u>1423</u>
Particles >14μm		ASTM D7647	>80	<u>^</u> 270	15	31
Particles >21μm		ASTM D7647	>20	<u>^</u> 88	4	4
Particles >38μm		ASTM D7647	>4	<u>^</u> 7	1	0
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>18/15/13	<u>21/19/15</u>	<u>^</u> 21/17/11	<u>^</u> 21/18/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
A at al. N ala a (ANI)	I/OII/-	ACTM DOZA	0.1	0.020	0.10	0.00

Acid Number (AN)

mg KOH/g ASTM D974 0.1

0.12

0.038

0.09



OIL ANALYSIS REPORT

