

PROBLEM SUMMARY

Sample Rating Trend



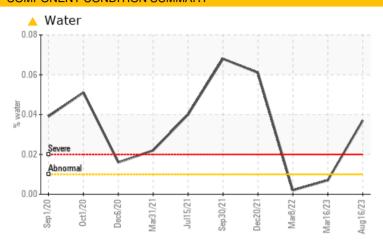
C-162 - PANTHER 1 C-162 - PANTHER 1

Component

Refrigeration Compressor

CPI ENG. 1516-100 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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

PROBLEMATIC TEST RESULTS											
Sample Status				MARGINAL	NORMAL	ABNORMAL					
Water	%	ASTM D6304	>0.01	△ 0.037	0.007	0.002					
ppm Water	ppm	ASTM D6304	>100	371.9	73.1	19.4					

Customer Id: ENERAN Sample No.: TO90002268 Lab Number: 05931598 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Angela Borella +1 800-237-1369 angela.borella@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

16 Mar 2023 Diag: Doug Bogart

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination 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.



08 Mar 2022 Diag: Don Baldridge

150



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



20 Dec 2021 Diag: Don Baldridge

WAIER



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.





OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

C-162 - PANTHER 1 C-162 - PANTHER 1

Component

Refrigeration Compressor

CPI ENG. 1516-100 (--- 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 trace of moisture present in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

		Sep2020 Oct2	020 Dec2020 Mar2021 Jul2	021 Sep2021 Dec2021 Mar2022 Mar2	023 Aug2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO90002268	TO90002365	TO90001765
Sample Date		Client Info		16 Aug 2023	16 Mar 2023	08 Mar 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				MARGINAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>8	4	3	<1
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				1
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	2
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	3	0
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m		<1	5	0
Calcium	ppm	ASTM D5185m		6	16	0
Phosphorus	ppm	ASTM D5185m		642	676	458
Zinc	ppm	ASTM D5185m		0	9	0
Sulfur	ppm	ASTM D5185m		10	57	8
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	4	3	3
Sodium	ppm	ASTM D5185m		3	2	3
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.01	△ 0.037	0.007	0.002
ppm Water	ppm	ASTM D6304	>100	△ 371.9	73.1	19.4
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
		4 OT1 4 DE0 45	>10000	6011	1000	
Particles >4µm		ASTM D7647	>10000	0011	4086	<u>^</u> 20945
Particles >4μm Particles >6μm		ASTM D7647		1195	1028	△ 20945 △ 3376
Particles >6µm		ASTM D7647	>2500 >320	1195	1028	▲ 3376
Particles >6μm Particles >14μm		ASTM D7647 ASTM D7647	>2500 >320	1195 44	1028 36	△ 3376 95
Particles >6μm Particles >14μm Particles >21μm		ASTM D7647 ASTM D7647 ASTM D7647	>2500 >320 >80 >20	1195 44 7	1028 36 6	▲ 3376 95 13
Particles >6μm Particles >14μm Particles >21μm Particles >38μm		ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>2500 >320 >80 >20	1195 44 7 0	1028 36 6 0	▲ 3376 95 13 0

0.016



OIL ANALYSIS REPORT

