

PROBLEM SUMMARY

Sample Rating Trend

WATER



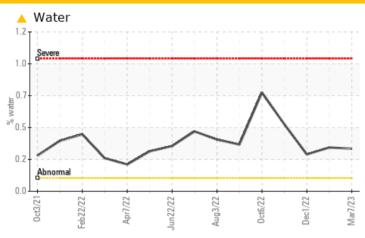
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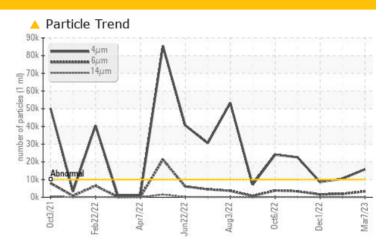
Component

Screw Compressor

COMPRESSOR OIL ISO 100 (--- 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	>0.1	△ 0.320	△ 0.330	△ 0.278			
ppm Water	ppm	ASTM D6304	>1000	3203.0	▲ 3306.1	△ 2787.6			
Particles >4µm		ASTM D7647	>10000	<u> </u>	<u>▲</u> 10453	8599			
Particles >6µm		ASTM D7647	>2500	3317	1917	1587			
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 21/19/14	<u>\</u> 21/18/14	20/18/13			

Customer Id: GARROW Sample No.: TO70000057 Lab Number: 05790916 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@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	MISSED	May 01 2023	?	We recommend you service the filters on this component.

HISTORICAL DIAGNOSIS

07 Feb 2023 Diag: Doug Bogart

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 moderate amount of silt (particulates < 6 microns in size) 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.



01 Dec 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 light concentration of water 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.



15 Nov 2022 Diag: Jonathan Hester

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 silt (particulates < 14 microns in size) 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.





OIL ANALYSIS REPORT

Sample Rating Trend



FRICK FRICK A

Component

Screw Compressor

COMPRESSOR OIL ISO 100 (--- 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 moderate amount of silt (particulates < 14 microns in size) present in the oil. There is a light concentration of water present in the oil.

Fluid Condition

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

		Oct2021 Feb	2022 Apr2022 Jun202	2 Aug2022 Oct2022 Dec20	22 Mar202:	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO70000057	TO70000053	TO60000196
Sample Date		Client Info		07 Mar 2023	07 Feb 2023	01 Dec 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	>60	0	0	0
Chromium	ppm	ASTM D5185m	>4	0	0	0
Nickel	ppm	ASTM D5185m		0	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	<1	0	0
Lead	ppm	ASTM D5185m	>10	0	0	0
Copper	ppm	ASTM D5185m	>30	0	0	0
Tin	ppm	ASTM D5185m	>15	<1	<1	1
Vanadium	ppm	ASTM D5185m		<1	<1	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	5	0	0	0
Barium	ppm	ASTM D5185m	5	0	0	0
Molybdenum	ppm	ASTM D5185m	5	0	0	2
Manganese	ppm	ASTM D5185m		<1	0	0
Magnesium	ppm	ASTM D5185m	5	2	<1	13
Calcium	ppm	ASTM D5185m	5	0	2	0
Phosphorus	ppm	ASTM D5185m	150	27	32	31
Zinc	ppm	ASTM D5185m	5	0	4	2
Sulfur	ppm	ASTM D5185m	5000	3098	3058	3616
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	39	47	38
Sodium	ppm	ASTM D5185m		0	3	0
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.1	△ 0.320	△ 0.330	▲ 0.278
ppm Water	ppm	ASTM D6304	>1000	▲ 3203.0	▲ 3306.1	<u>▲</u> 2787.6
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	15823	<u>▲</u> 10453	8599
Particles >6µm		ASTM D7647	>2500	<u> </u>	1917	1587
Particles >14μm		ASTM D7647	>320	115	93	76
Particles >21µm		ASTM D7647	>80	9	21	15
Particles >38μm		ASTM D7647	>20	1	2	1
Particles >71μm		ASTM D7647	>4	0	0	0
		100 1100 ()				
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u>^</u> 21/19/14	<u>^</u> 21/18/14	20/18/13

Acid Number (AN)

mg KOH/g ASTM D8045 0.51

0.512

0.384

0.296



OIL ANALYSIS REPORT

