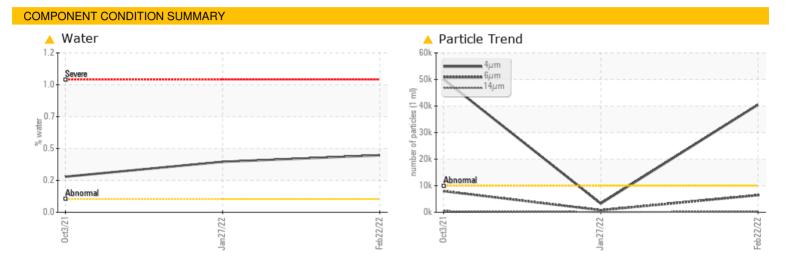


PROBLEM SUMMARY

Machine Id FRICK FRICK A Component Screw Compressor Fluid ISO 100 (--- GAL)



RECOMMENDATION

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. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

THOBLEMAND TEST HEODETS							
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL	
Water	%	ASTM D6304	>0.1	A 0.429	0.380	▲ 0.268	
ppm Water	ppm	ASTM D6304	>1000	4296.1	A 3807.0	🔺 2681.6	
Particles >4µm		ASTM D7647	>10000	<u> </u>	3288	▲ 50068	
Particles >6µm		ASTM D7647	>2500	<u> </u>	791	A 7959	
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>	19/17/14	▲ 23/20/16	
Debris	scalar	*Visual	NONE	A MODER	NONE	LIGHT	

Sample Rating Trend

WATER

Customer Id: GARROW Sample No.: TO50000456 Lab Number: 05535248 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 jhester@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		
Water Drain-off	MISSED	May 05 2022	?	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.		

HISTORICAL DIAGNOSIS

27 Jan 2022 Diag: Jonathan Hester



We advise that you follow the water drain-off procedure for 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. Elemental level of silicon (Si) above normal. 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.

03 Oct 2021 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 high amount of particulates 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.



view report

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OIL ANALYSIS REPORT

Sample Rating Trend

WATER

FRICK FRICK A Component Screw Compressor Fluid ISO 100 (--- GAL)

DIAGNOSIS

Machine Id

Recommendation

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. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Insufficient sample was received to conduct all the routine laboratory tests. 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.

Fluid Condition

The condition of the oil is acceptable for the time in service.

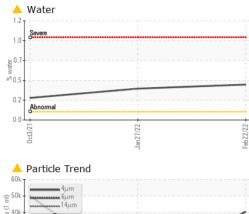
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50000456	TO50000455	TO50000451
Sample Date		Client Info		22 Feb 2022	27 Jan 2022	03 Oct 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>60	0	0	<1
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		0	<1	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m	\ 5	0	0	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m		0	0	<1
Tin	ppm	ASTM D5185m	>30	۰ <1	<1	<1
Antimony		ASTM D5185m	210		<1	<1
Vanadium	ppm	ASTM D5185m		0	0	<1
Cadmium	ppm			0		
	ppm	ASTM D5185m		U	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		1	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	<1
Calcium	ppm	ASTM D5185m		0	0	5
Phosphorus	ppm	ASTM D5185m		12	7	9
Zinc	ppm	ASTM D5185m		0	0	1
Sulfur	ppm	ASTM D5185m		1969	2026	326
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	28	▲ 52	17
Sodium	ppm	ASTM D5185m		0	0	1
Potassium	ppm	ASTM D5185m	>20	2	<1	<1
Water	%	ASTM D6304	>0.1	0.429	▲ 0.380	▲ 0.268
ppm Water	ppm	ASTM D6304	>1000	4296.1	▲ 3807.0	▲ 2681.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	40464	3288	▲ 50068
Particles >6µm		ASTM D7647	>2500	<u> </u>	791	▲ 7959
Particles >14µm		ASTM D7647	>320	207	90	4 43
Particles >21µm		ASTM D7647	>80	40	33	1 09
Particles >38µm		ASTM D7647	>20	0	1	2
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 23/20/15	19/17/14	▲ 23/20/16
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045			0.277	0.471
(-25-23) Boy: 1	mynonry				ation: DUSTIN F	

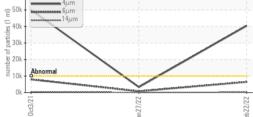
Report Id: GARROW [WUSCAR] 05535248 (Generated: 07/19/2023 15:25:23) Rev: 1

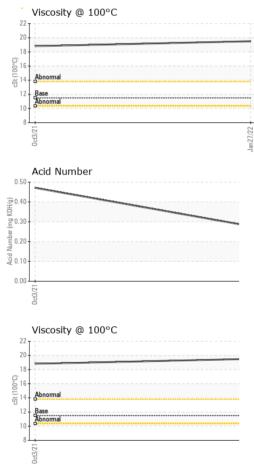
Contact/Location: DUSTIN FRY - GARROW



OIL ANALYSIS REPORT

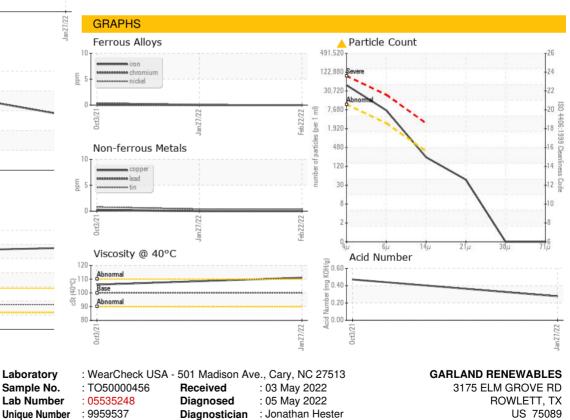






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	🔺 MODER	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100		111	106
Visc @ 100°C	cSt	ASTM D445	11.5		19.5	18.81
Viscosity Index (VI)	Scale	ASTM D2270	102		198	198
SAMPLE IMAGES	S	method	limit/base	current	history1	history2
Color					100455	

Bottom



* - 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)

Test Package : IND 2 (Additional Tests: KF, KV100, PrtCount, VI)

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Certificate L2367

Laboratory

Contact/Location: DUSTIN FRY - GARROW

T:

F:

Contact: DUSTIN FRY

dustin@morrowrenew.com