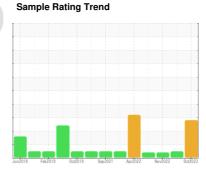


PROBLEM SUMMARY

Area [21973327] 170-329 ROTARY SCREW COMPRESSOR

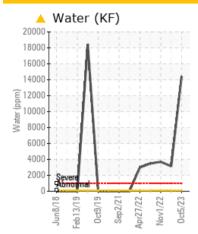
Rotary Compressor

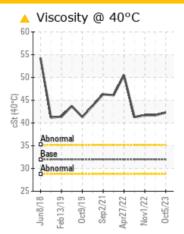
SULLAIR SULLUBE 32 (20 LTR)

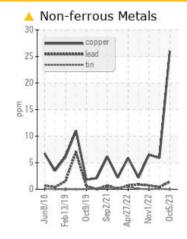


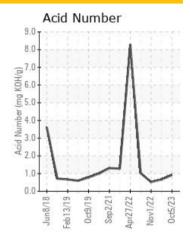


COMPONENT CONDITION SUMMARY









RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS									
Sample Status				ABNORMAL	NORMAL	ABNORMAL			
Copper	ppm	ASTM D5185(m)	>20	^ 26	6	6			
Water	%	ASTM D6304*	>0.6	1.441	0.313	0.369			
ppm Water	ppm	ASTM D6304*		14410.4	3138.0	3698.9			
Emulsified Water	scalar	Visual*	>0.6	.2 %	NEG	NEG			
Visc @ 40°C	cSt	ASTM D7279(m)	32.0	42.3	41.7	△ 41.7			

Customer Id: FLASTS Sample No.: WC0840186 Lab Number: 02590295 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

To change component or sample information: Gloria Gonzalez +1 (289)291-4643 x4643 gloria.gonzalez@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Resample			?	We recommend an early resample to monitor this condition.
Check Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Water Access			?	We advise that you check for the source of water entry.
Check Seals			?	Check seals and/or filters for points of contaminant entry.
Filter Fluid			?	We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil.

HISTORICAL DIAGNOSIS

06 Jun 2023 Diag: Kevin Marson

NORMAL



Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within SAE 10W range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



01 Nov 2022 Diag: Kevin Marson

VISCOSITY



Resample at the next service interval to monitor. The fluid was specified as SULLAIR SULLUBE 32, however, a fluid match indicates that this fluid is ISO 46 Synthetic (PAG) Compressor Oil. Please confirm the oil type and grade on your next sample. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



03 Aug 2022 Diag: Kevin Marson

VISCOSITY



Resample at the next service interval to monitor. The fluid was specified as SULLAIR SULLUBE 32, however, a fluid match indicates that this fluid is ISO 46 Synthetic (PAG) Compressor Oil. Please confirm the oil type and grade on your next sample. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



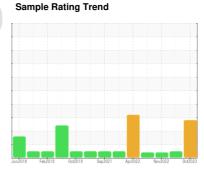


OIL ANALYSIS REPORT

^{Area} [21973327] 170-329 ROTARY SCREW COMPRESSOR

Rotary Compressor

SULLAIR SULLUBE 32 (20 LTR)





DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend an early resample to monitor this condition.

Wear

Copper ppm levels are abnormal. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core).

Contamination

There is a moderate concentration of water present in the oil.

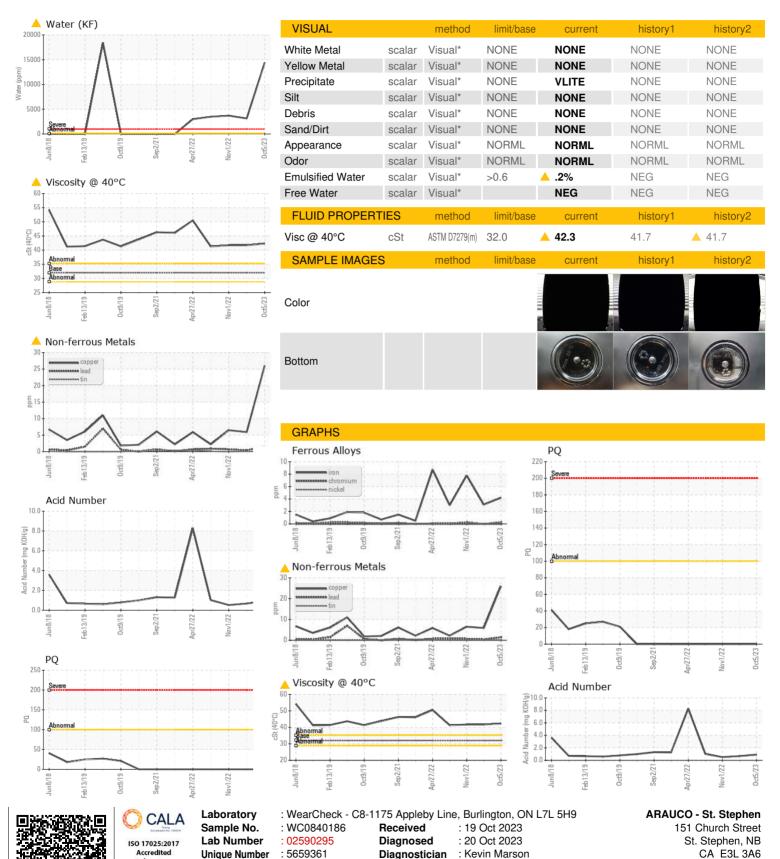
Fluid Condition

An increase in the AN level is noted. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0840186	WC0813421	WC0729487
Sample Date		Client Info		05 Oct 2023	06 Jun 2023	01 Nov 2022
Machine Age	mths	Client Info		03 OCI 2023	0	0
Oil Age	mths	Client Info		0	0	0
Oil Changed	111(113	Client Info		N/A	N/A	N/A
Sample Status		Oliotic IIIIo		ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>70	4	3	8
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)	7.0	<1	0	<1
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>3	0	<1	<1
Lead	ppm	ASTM D5185(m)		1	<1	<1
Copper	ppm	ASTM D5185(m)	>20	<u>^</u> 26	6	6
Tin	ppm	ASTM D5185(m)	>3	0	<1	0
Antimony	ppm	ASTM D5185(m)		0	<1	0
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		5	2	1
Barium	ppm	ASTM D5185(m)	745	678	777	802
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	<1	<1
Magnesium	ppm	ASTM D5185(m)		1	1	<1
Calcium	ppm	ASTM D5185(m)	1	8	4	5
Phosphorus	ppm	ASTM D5185(m)	3	1	<1	0
Zinc	ppm	ASTM D5185(m)		81	106	102
Sulfur	ppm	ASTM D5185(m)		288	315	313
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
	ppm	ASTM D5185(m)	>45	2	1	1
Silicon	le le					
Sodium	ppm	ASTM D5185(m)		38	44	41
Sodium Potassium	ppm ppm	ASTM D5185(m)	>20	4	10	41 5
Sodium Potassium Water	ppm	ASTM D5185(m) ASTM D6304*	>20 >0.6	4 ▲ 1.441	10 0.313	
Sodium Potassium	ppm ppm	ASTM D5185(m)		4	10	5
Sodium Potassium Water	ppm ppm % ppm	ASTM D5185(m) ASTM D6304*		4 ▲ 1.441	10 0.313	5 0.369



OIL ANALYSIS REPORT



Test Package : IND 2 (Additional Tests: KF, TAN Man)

Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

To discuss this sample report, contact Customer Service at 1-800-268-2131.

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