

OIL ANALYSIS REPORT

Sample Rating Trend

FRICK FRICK A

Component Screw Compressor Fluid COMPRESSOR OIL ISO 100 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component if applicable. 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.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		TO50002557	TO50001892	TO50001894
Sample Date		Client Info		07 May 2024	19 Apr 2024	06 Mar 2024
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	<1	0	0
Chromium	ppm	ASTM D5185m	>4	<1	0	0
Nickel	ppm	ASTM D5185m		<1	0	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>5	2	0	0
Lead	ppm	ASTM D5185m	>10	0	<1	0
Copper	ppm	ASTM D5185m	>30	<1	0	0
Tin	ppm	ASTM D5185m	>15	<1	1	<1
Vanadium	ppm	ASTM D5185m		<1	0	0
Cadmium	ppm	ASTM D5185m		<1	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	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m	5	<1	<1	<1
Calcium	ppm	ASTM D5185m	5	4	0	0
Phosphorus	ppm	ASTM D5185m	150	4	4	0
Zinc	ppm	ASTM D5185m	5	0	0	0
Sulfur	ppm	ASTM D5185m	5000	1000	1135	1114
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	20	23	15
Sodium	ppm	ASTM D5185m		3	0	<1
Potassium	ppm	ASTM D5185m	>20	4	2	<1
Water	%	ASTM D6304	>0.1	A 0.317	▲ 0.404	▲ 0.324
ppm Water	ppm	ASTM D6304	>1000	A 3174	4049	▲ 3237
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	e 10586	17352	▲ 34534
Particles >6µm		ASTM D7647	>2500	930	1324	4414
Particles >14µm		ASTM D7647	>320	40	34	155
Particles >21µm		ASTM D7647	>80	13	10	43
Particles >38µm		ASTM D7647	>20	1	0	0
Particles >71µm		ASTM D7647	>4	0	0	0
Oil Cleanliness		ISO 4406 (c)	>20/18/15	e 21/17/12	21/18/12	▲ 22/19/14
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.51	0.166	0.107	0.76

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Base 10 Abnormal

1.20

(B/HO)

E 0.72

a 0.41

Poid O.2

0.00

22 2

1

(100°C) 14 14

Bas Abnormal

Anr7/77

Acid Number

0ct6/22

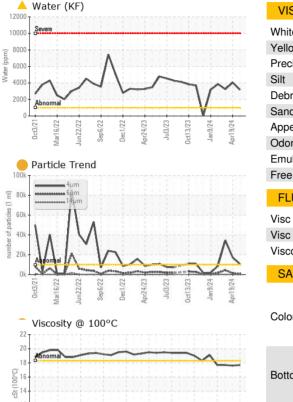
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Viscosity @ 100°C

eb7/23

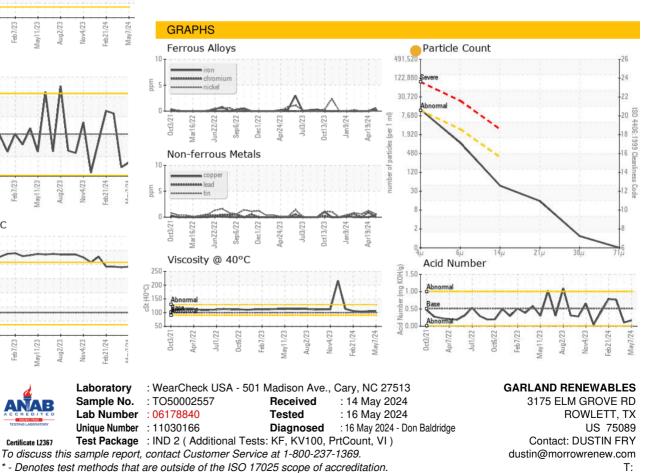
eb7/23

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	NONE	NONE	NONE
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	105	105	104
Visc @ 100°C	cSt	ASTM D445	11.2	17.7	17.6	17.7
Viscosity Index (VI)	Scale	ASTM D2270	97	186	185	188
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						
5						

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)

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Contact/Location: DUSTIN FRY - GARROW

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