

OIL ANALYSIS REPORT

Sample Rating Trend

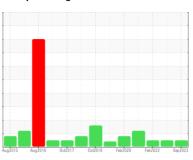
NORMAL



High Stage #3 (S/N S0894RFMPTHAA03)

Rotary Compressor

FRICK COMPRESSOR OIL #3 (165 GAL)





DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

All component wear rates are normal.

Contamination

The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The water content is negligible. The system and fluid cleanliness is acceptable.

Fluid Condition

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

		Aug2015	Aug2016 Oct2017	Oct2018 Feb2020 Feb2022	Sep 2023	
SAMPLE INFOR	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0861029	WC0752802	WC0664325
Sample Date		Client Info		25 Sep 2023	13 Nov 2022	21 Feb 2022
Machine Age	hrs	Client Info		92837	91914	91310
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	Changed	Not Changd
Sample Status				NORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>70	3	3	2
Chromium	ppm	ASTM D5185(m)	>10	0	0	0
Nickel	ppm	ASTM D5185(m)		0	<1	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>3	0	0	0
Lead	ppm	ASTM D5185(m)	>4	0	0	0
Copper	ppm	ASTM D5185(m)	>20	<1	<1	<1
Tin	ppm	ASTM D5185(m)	>3	0	0	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)		<1	0	<1
Barium	ppm	ASTM D5185(m)		6	6	5
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)		<1	0	<1
Phosphorus	ppm	ASTM D5185(m)		0	0	<1
Zinc	ppm	ASTM D5185(m)		1	1	1
Sulfur	ppm	ASTM D5185(m)		34	35	38
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS	S	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>45	0	0	0
Sodium	ppm	ASTM D5185(m)		<1	0	0
Potassium	ppm	ASTM D5185(m)	>20	0	0	0
Water	%	ASTM D6304*	>0.6	0.002	0.001	0.001
ppm Water	ppm	ASTM D6304*		20.6	0.7	10.7
FLUID CLEANLII	NESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	1860	1452	3519
Particles >6µm		ASTM D7647	>2500	442	444	1123
Particles >14µm		ASTM D7647	>320	26	37	71
Particles >21µm		ASTM D7647		7	8	10
Particles >38µm		ASTM D7647	>20	0	0	0
Particles >71µm		ASTM D7647	>4	0	0	0

ISO 4406 (c) >20/18/15

Oil Cleanliness

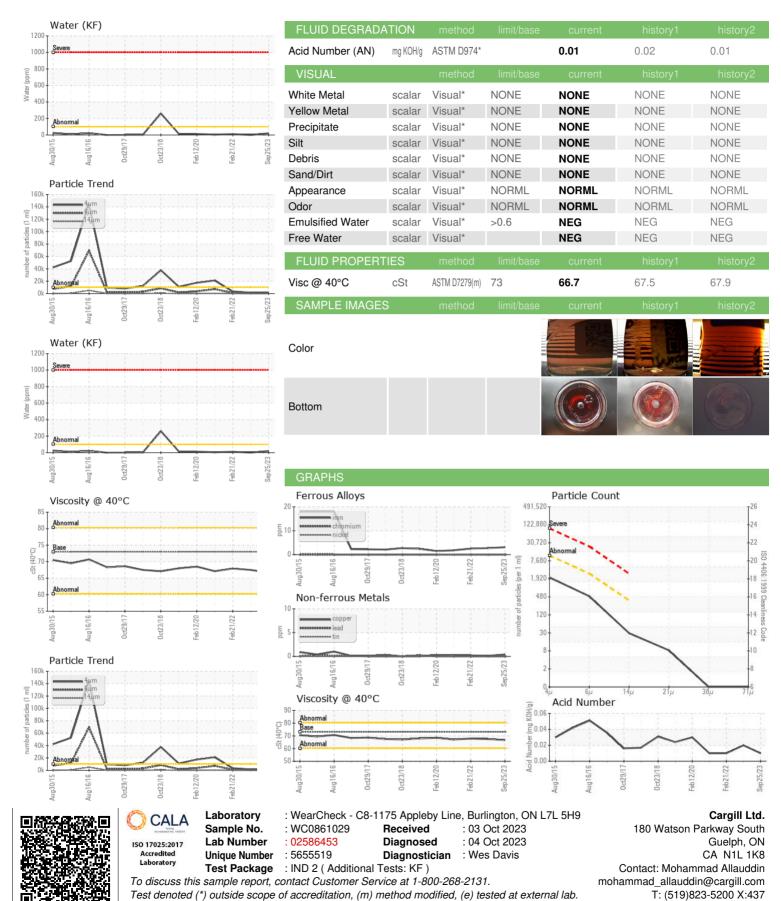
18/16/12

18/16/12

19/17/13



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Validity of results and interpretation are based on the sample and information as supplied.

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