



OIL ANALYSIS REPORT

Sample Rating Trend

NORMAL



Area

GP-105 [10024085833]

Machine Id

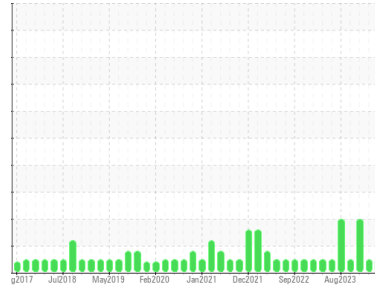
B29774 - VACUUM PUMP BUSCH RA0400 RAPID PAK LINE 1 (S/N C1517)

Component

Pump

Fluid

R&O OIL ISO 100 (4 GAL)



DIAGNOSIS

Recommendation

Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable.

Fluid Condition

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

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	WC0907933	WC0866704	WC0866776
Sample Date	Client Info	27 Mar 2024	07 Feb 2024	06 Dec 2023
Machine Age	yrs Client Info	0	0	0
Oil Age	yrs Client Info	0	0	0
Oil Changed	Client Info	N/A	N/A	N/A
Sample Status		NORMAL	NORMAL	ATTENTION

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method >.1	NEG	NEG	NEG

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm ASTM D5185m >90	3	2	0
Chromium	ppm ASTM D5185m >5	0	0	0
Nickel	ppm ASTM D5185m >5	<1	0	<1
Titanium	ppm ASTM D5185m >3	0	0	0
Silver	ppm ASTM D5185m >3	0	0	0
Aluminum	ppm ASTM D5185m >7	0	0	<1
Lead	ppm ASTM D5185m >12	0	0	0
Copper	ppm ASTM D5185m >30	0	0	0
Tin	ppm ASTM D5185m >9	0	0	0
Vanadium	ppm ASTM D5185m	<1	0	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	0
Manganese	ppm ASTM D5185m	0	0	<1
Magnesium	ppm ASTM D5185m 5	8	11	<1
Calcium	ppm ASTM D5185m 5	13	11	0
Phosphorus	ppm ASTM D5185m 100	38	25	4
Zinc	ppm ASTM D5185m 25	4	<1	0
Sulfur	ppm ASTM D5185m 1500	238	86	0

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >60	5	6	34
Sodium	ppm ASTM D5185m	15	16	<1
Potassium	ppm ASTM D5185m >20	4	<1	6

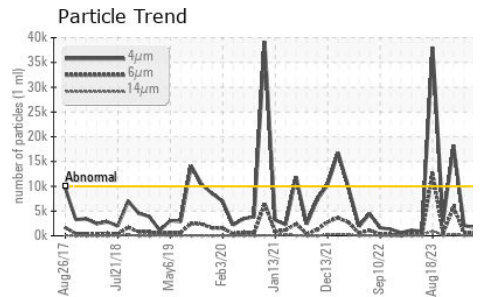
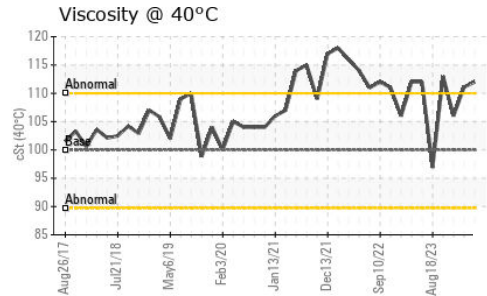
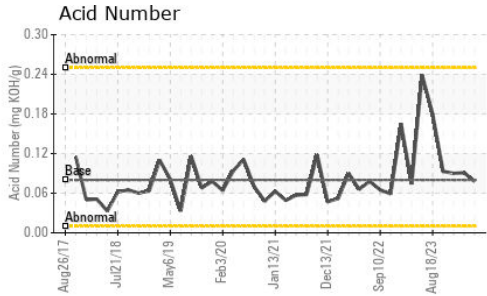
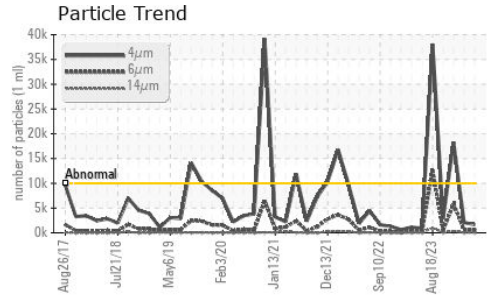
FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >10000	1661	2065	18267
Particles >6µm	ASTM D7647 >1300	540	601	5804
Particles >14µm	ASTM D7647 >160	48	50	314
Particles >21µm	ASTM D7647 >40	10	14	73
Particles >38µm	ASTM D7647 >10	2	1	3
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >20/17/14	18/16/13	18/16/13	21/20/15

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.08	0.078	0.091	0.09

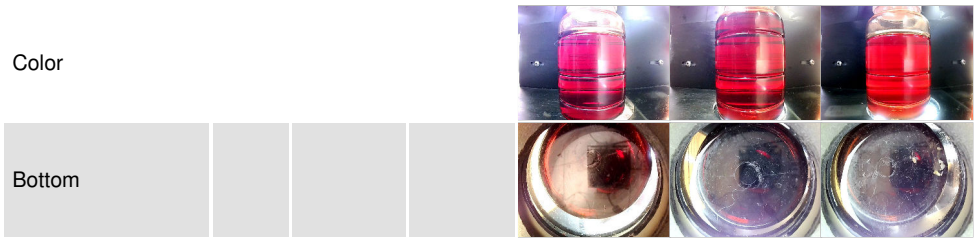
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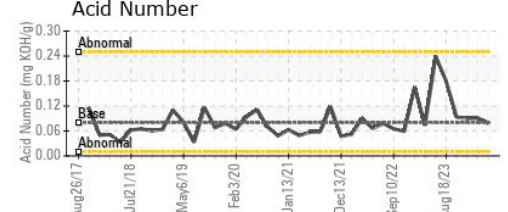
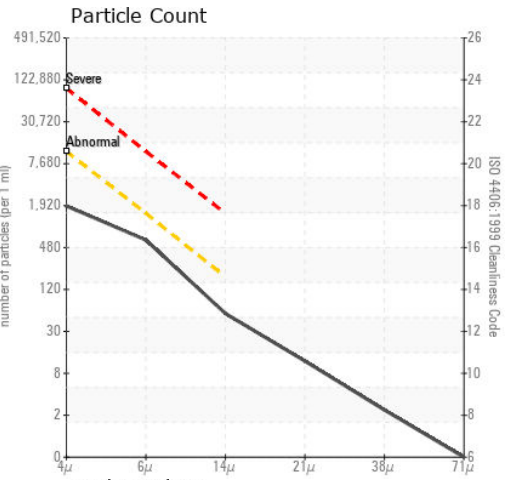
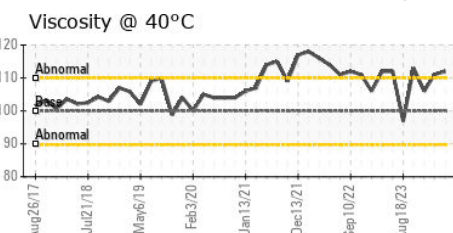
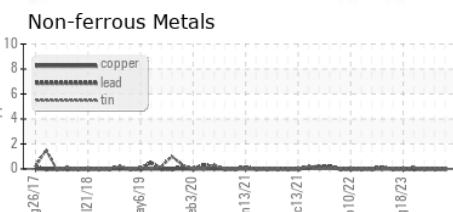
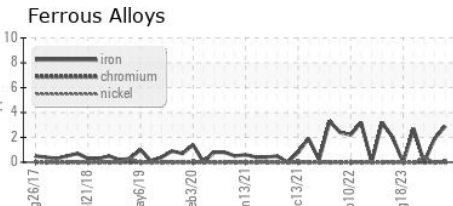
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	100	112	111.1

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0907933
Lab Number : 06134866
Unique Number : 10954331
Test Package : IND 2 (Additional Tests: PrtCount)

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 1101 NORTH MAIN ST
 AUSTIN, MN
 US 55912
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To discuss this sample report, contact Customer Service at 1-800-237-1369.
 * - 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)