

OIL ANALYSIS REPORT

Area Machine Id F00216 - VACUUM PUMP BUSCH RAU630 CRYOVAC LINE 3 TOP (S/N U053804580) Component Pump

Fluid R&O OIL ISO 100 (--- GAL)

DIAGNOSIS

Recommendation

We recommend you service the filters on this component. Resample at the next service interval to monitor.

Wear

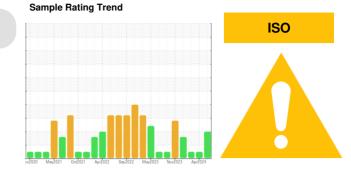
All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

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



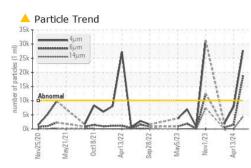
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2		
Sample Number		Client Info		WC0930417	WC0907924	WC0885538		
Sample Date		Client Info		31 May 2024	13 Apr 2024	12 Mar 2024		
Machine Age	hrs	Client Info		0	0	0		
Oil Age	hrs	Client Info		0	0	0		
Oil Changed		Client Info		N/A	N/A	N/A		
Sample Status				ABNORMAL	NORMAL	NORMAL		
CONTAMINATION	١	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	4	6	6		
Chromium	ppm	ASTM D5185m	>5	0	0	<1		
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	3	3	3		
Lead	ppm	ASTM D5185m	>12	0	0	0		
Copper	ppm	ASTM D5185m	>30	0	<1	0		
Tin	ppm		>9	1	1	1		
Vanadium	ppm	ASTM D5185m	-	0	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	1	0	0		
Molybdenum	ppm	ASTM D5185m	5	0	0	0		
Manganese	ppm	ASTM D5185m	0	<1	<1	<1		
Magnesium	ppm	ASTM D5185m	5	<1	0	0		
Calcium	ppm	ASTM D5185m	5	3	2	0		
		ASTM D5185m	100	5 528	528	581		
Phosphorus Zinc	ppm	ASTM D5185m	25	526 14	2	4		
-	ppm							
Sulfur	ppm	ASTM D5185m	1500	1460	1465	1606		
CONTAMINANTS		method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m		6	4	4		
Sodium	ppm	ASTM D5185m		3	3	3		
Potassium	ppm	ASTM D5185m	>20	3	1	<1		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2		
Particles >4µm		ASTM D7647	>10000	A 27650	7854	1916		
Particles >6µm		ASTM D7647	>2500	<u> </u>	1458	548		
Particles >14µm		ASTM D7647	>320	4 327	77	46		
Particles >21µm		ASTM D7647	>80	<u> </u>	14	8		
Particles >38µm		ASTM D7647	>20	26	0	1		
Particles >71µm		ASTM D7647	>4	2	0	1		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	A 22/21/19	20/18/13	18/16/13		
FLUID DEGRADA		method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045	0.08	0.13	0.16	0.18		
:58:50) Bev: 1	0 - 0				Contact/Location: BYAN LOWE - HOBALIS			

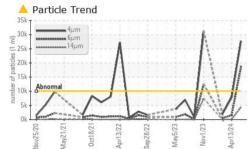
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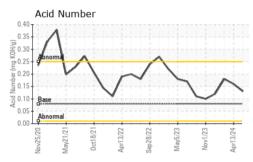
Contact/Location: RYAN LOWE - HORAUS Page 1 of 2

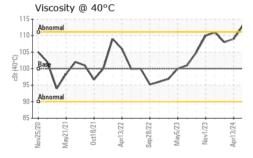


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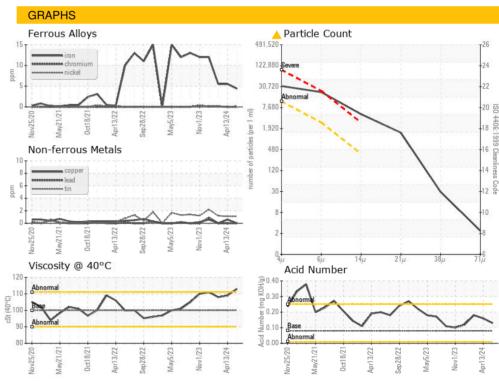








VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>.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	113	109	108
SAMPLE IMAGES		method	limit/base	current	history1	history2
Color						•
Bottom						



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513 **HORMEL FOODS - AUSTIN** Sample No. : WC0930417 Received : 10 Jun 2024 1101 NORTH MAIN ST Lab Number : 06204548 Tested : 12 Jun 2024 AUSTIN, MN : 12 Jun 2024 - Angela Borella Unique Number : 11072009 Diagnosed US 55912 Test Package : IND 2 (Additional Tests: PrtCount) Contact: RYAN LOWE Certificate 12367 To discuss this sample report, contact Customer Service at 1-800-237-1369. rslowe@hormel.com T: (507)437-5674 * - 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) F: (507)437-9805

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