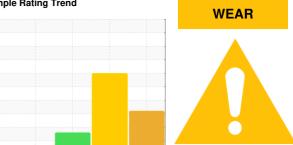


OIL ANALYSIS REPORT

Sample Rating Trend



DENISON Comp Wabash 50 ton (S/N PRESS)

Hydraulic System

MONARCH PREMIUM HYDRAULIC OIL AW

DIAGNOSIS

Recommendation

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition.

Wear

Copper ppm levels are noted. A sharp increase in the copper level is noted. All other component wear rates are normal.

Contamination

There is a moderate amount of particulates (2 to 100 microns in size) present in the oil.

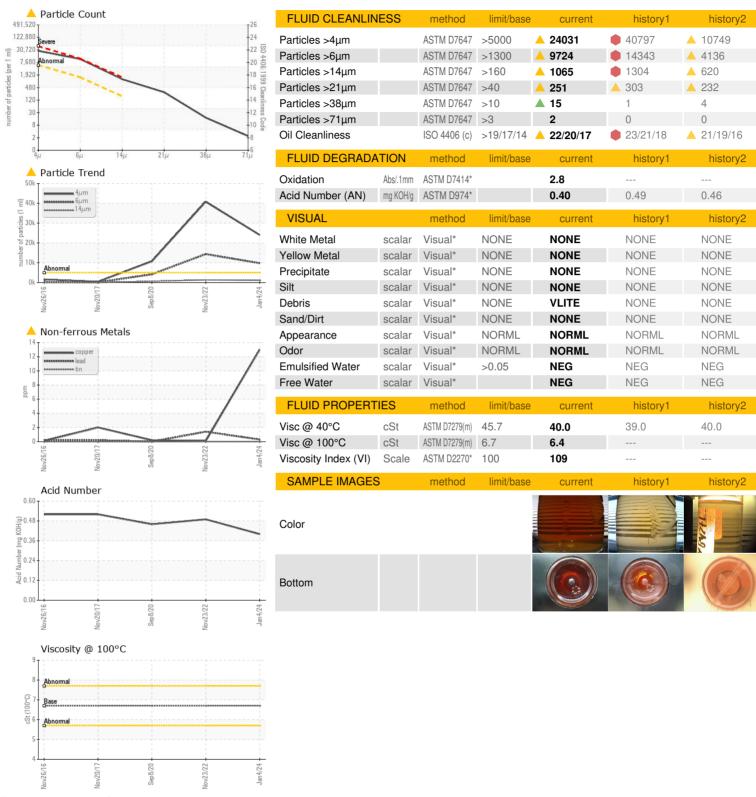
Fluid Condition

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

R&O 46 (90 GAI	L)	Nov2016	Nov2017	Sep2020 Nov2022	Jan2024	
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0887248	WC0733015	WC0491082
Sample Date		Client Info		04 Jan 2024	23 Nov 2022	08 Sep 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Filtered	N/A	N/A
Sample Status				ABNORMAL	SEVERE	ABNORMAL
CONTAMINATION	J	method	limit/base	current	history1	history2
Water		WC Method	>0.05	NEG	NEG	NEG
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185(m)	>20	4	<1	0
Chromium	ppm	ASTM D5185(m)	>20	0	0	<1
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		<1	0	0
Aluminum	ppm	ASTM D5185(m)	>20	<1	<1	0
Lead	ppm	ASTM D5185(m)	>20	<1	1	0
Copper	ppm	ASTM D5185(m)	>20	1 3	<1	<1
Tin	ppm	ASTM D5185(m)	>20	0	0	0
Antimony	ppm	ASTM D5185(m)		0	0	<1
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	2	2
Barium	ppm	ASTM D5185(m)		0	0	<1
Molybdenum	ppm	ASTM D5185(m)		0	<1	<1
Manganese	ppm	ASTM D5185(m)		0	0	0
Magnesium	ppm	ASTM D5185(m)		<1	<1	<1
Calcium	ppm	ASTM D5185(m)		26	39	34
Phosphorus	ppm	ASTM D5185(m)		280	323	305
Zinc	ppm	ASTM D5185(m)		288	341	361
Sulfur	ppm	ASTM D5185(m)		2554	2630	2724
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>15	3	6	0
Sodium	ppm	ASTM D5185(m)		<1	<1	0
Potassium	ppm	ASTM D5185(m)	>20	<1	<1	<1
INFRA-RED		method	limit/base	current	history1	history2
Soot %	%	ASTM D7844*		0		
Nitration	Abs/cm	ASTM D7624*		2.2		
Sulfation	Abs/.1mm	ASTM D7415*		11.6		



OIL ANALYSIS REPORT





CALA ISO 17025:2017 Accredited

Laboratory

Laboratory Sample No. Lab Number **Unique Number**

: 02607032

: WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9 : WC0887248

Recieved Diagnosed

: 09 Jan 2024 Diagnostician : Kevin Marson

: 08 Jan 2024

: 5708118 Test Package : IND 2 (Additional Tests: Bottom, FT-IR, ICP-NewOil, KV100, VI)

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

SWIFT COMPONENTS 2-280 HOLIDAY INN DRIVE

CAMBRIDGE, ON CA N3C 1Z4 Contact: Sheldon Rier

sheldon@swift-co.com T: (519)740-3880 F: (519)620-1701