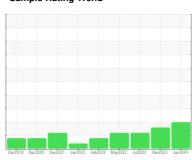


OIL ANALYSIS REPORT

Sample Rating Trend



ISO

A

Machine Id TR-4
Component
Hydraulic System
Fluid
{not provided} (--- 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.

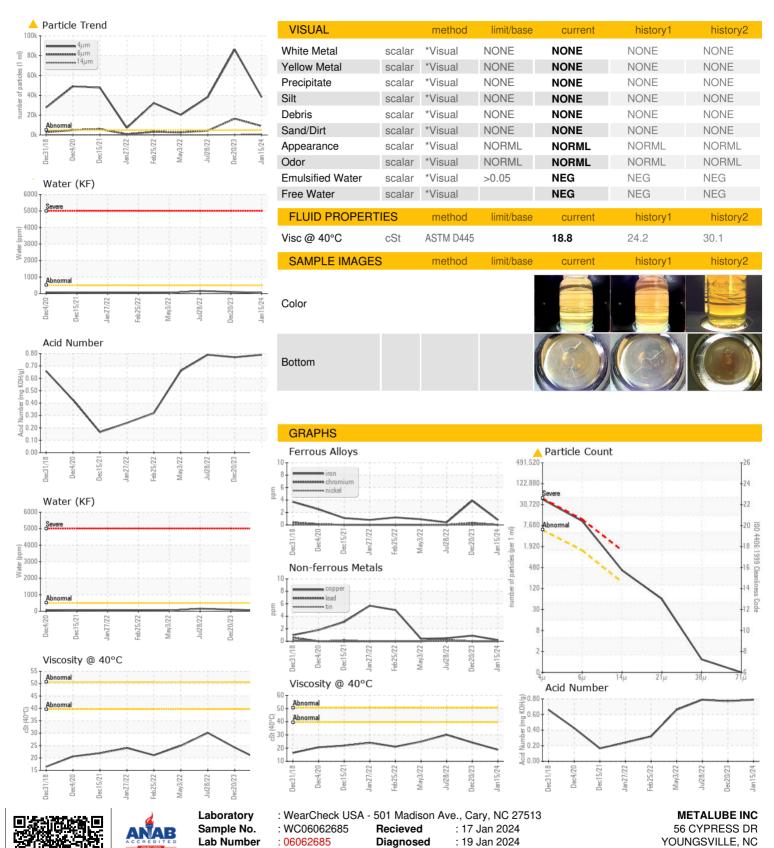
Fluid Condition

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

	Dec2018 De	c2020 Dec2021 Jan2022	Feb 2022 May 2022 Jul 2022 Dec 20	23 Jan2024	
SAMPLE INFORMATIO	N method	limit/base	current	history1	history2
Sample Number	Client Info		WC06062685	WC06043241	WC05605119
Sample Date	Client Info		15 Jan 2024	20 Dec 2023	28 Jul 2022
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	>20	<1	4	<1
Chromium ppm	ASTM D5185m	>20	0	<1	0
Nickel ppm	ASTM D5185m	>20	0	0	0
Titanium ppm	ASTM D5185m		<1	<1	<1
Silver ppm	ASTM D5185m		0	0	<1
Aluminum ppm	ASTM D5185m	>20	1	3	<1
Lead ppm	ASTM D5185m	>20	0	0	<1
Copper ppm	ASTM D5185m	>20	<1	<1	<1
Tin ppm	ASTM D5185m	>20	0	0	<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		0	2	<1
Barium ppm	ASTM D5185m		3	4	5
Molybdenum ppm	ASTM D5185m		0	0	0
Manganese ppm	ASTM D5185m		0	0	0
Magnesium ppm	ASTM D5185m		0	<1	0
Calcium ppm	ASTM D5185m		14	32	9
Phosphorus ppm	ASTM D5185m		289	337	241
Zinc ppm	ASTM D5185m		0	0	<1
Sulfur ppm	ASTM D5185m		3875	4272	3988
CONTAMINANTS	method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m	\15	<1	<1	0
Sodium ppm	ASTM D5185m	>10	0	0	0
Potassium ppm	ASTM D5185m	>20	<1	4	2
Water %	ASTM D6304	>0.05	0.004	0.009	0.015
ppm Water ppm	ASTM D6304	>500	41	100	155.7
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 38110	▲ 86206	△ 38190
Particles >6µm	ASTM D7647	>1300	▲ 8972	<u>▲</u> 16467	4333
Particles >14µm	ASTM D7647	>160	<u> </u>	<u>▲</u> 277	50
Particles >21µm	ASTM D7647	>40	<u></u> 53 .	30	7
Particles >38µm	ASTM D7647	>10	1	0	0
Particles >71µm	ASTM D7647		0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>^</u> 22/20/16	<u>4</u> 24/21/15	<u>22/19/13</u>
FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN) mg KOH	g ASTM D8045		0.79	0.77	0.79



OIL ANALYSIS REPORT



Certificate L2367

Unique Number

: 10834067

To discuss this sample report, contact Customer Service at 1-800-237-1369.

Test Package : IND 2 (Additional Tests: KF)

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Diagnostician

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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