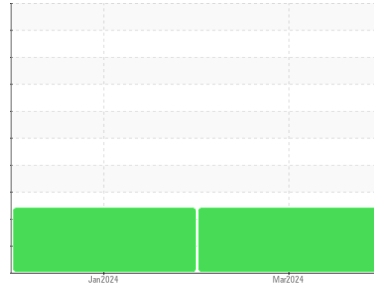




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
RTV83332

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

▲ Recommendation

We recommend you service the filters on this component if applicable. 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

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION	method	limit/base	current	history1	history2
Sample Number	Client Info		PH0003648	PH0000224	---
Sample Date	Client Info		18 Mar 2024	10 Jan 2024	---
Machine Age	hrs	Client Info	0	0	---
Oil Age	hrs	Client Info	0	0	---
Oil Changed	Client Info		N/A	N/A	---
Sample Status			ABNORMAL	ABNORMAL	---

CONTAMINATION	method	limit/base	current	history1	history2
Water	WC Method	>0.05	NEG	NEG	---

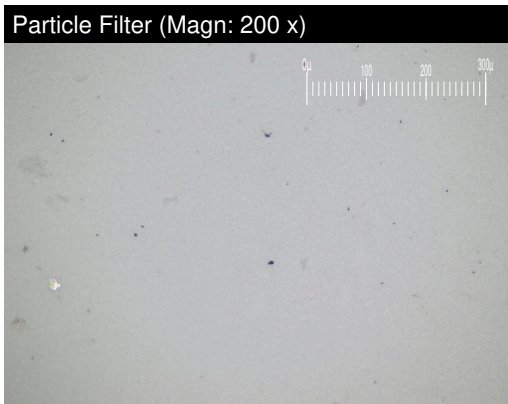
WEAR METALS	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	0	2	---
Chromium	ppm	ASTM D5185m >20	0	<1	---
Nickel	ppm	ASTM D5185m >20	0	<1	---
Titanium	ppm	ASTM D5185m	0	<1	---
Silver	ppm	ASTM D5185m	0	0	---
Aluminum	ppm	ASTM D5185m >20	0	2	---
Lead	ppm	ASTM D5185m >20	0	1	---
Copper	ppm	ASTM D5185m >20	0	<1	---
Tin	ppm	ASTM D5185m >20	0	1	---
Vanadium	ppm	ASTM D5185m	0	<1	---
Cadmium	ppm	ASTM D5185m	0	<1	---

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	17	9	---
Barium	ppm	ASTM D5185m 5	0	<1	---
Molybdenum	ppm	ASTM D5185m 5	0	1	---
Manganese	ppm	ASTM D5185m	0	<1	---
Magnesium	ppm	ASTM D5185m 25	0	0	---
Calcium	ppm	ASTM D5185m 200	0	<1	---
Phosphorus	ppm	ASTM D5185m 300	327	312	---
Zinc	ppm	ASTM D5185m 370	0	0	---
Sulfur	ppm	ASTM D5185m 2500	12819	12233	---

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	3	3	---
Sodium	ppm	ASTM D5185m	0	0	---
Potassium	ppm	ASTM D5185m >20	0	1	---

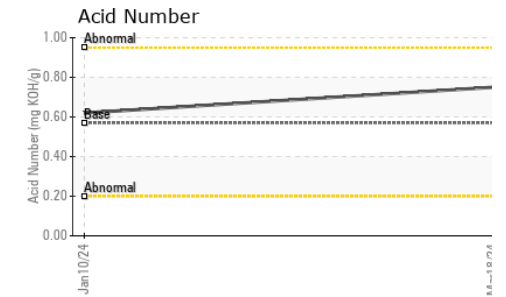
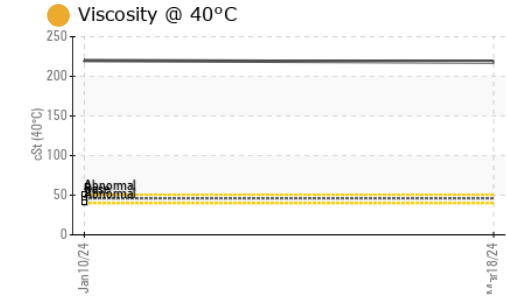
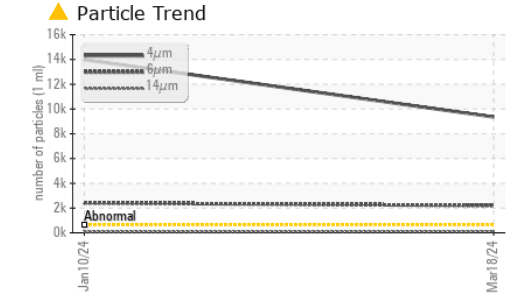
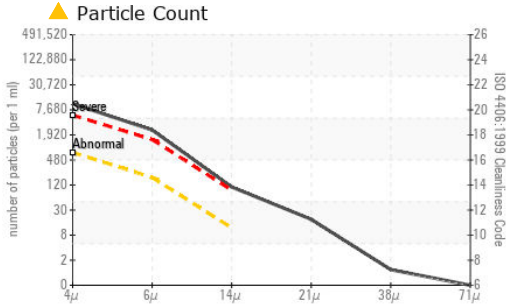
FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	▲ 9355	▲ 13983	---
Particles >6µm	ASTM D7647	>160	▲ 2205	▲ 2408	---
Particles >14µm	ASTM D7647	>10	▲ 95	▲ 69	---
Particles >21µm	ASTM D7647	>3	▲ 16	▲ 12	---
Particles >38µm	ASTM D7647	>3	1	1	---
Particles >71µm	ASTM D7647	>3	0	0	---
Oil Cleanliness	ISO 4406 (c)	>16/14/10	▲ 20/18/14	▲ 21/18/13	---

FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.75	0.62	---





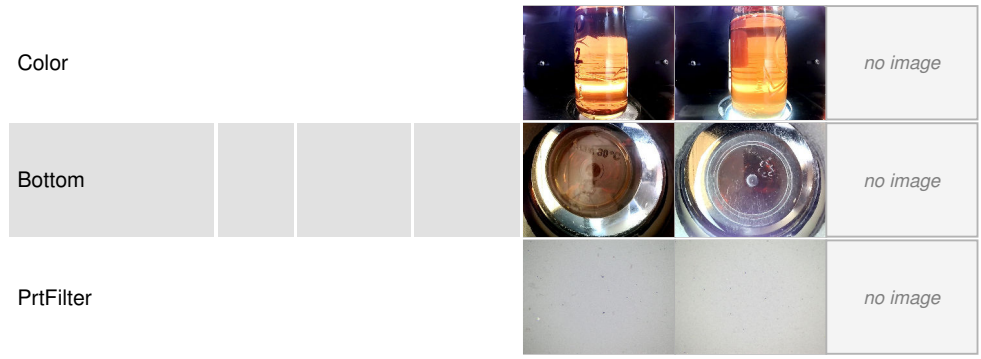
OIL ANALYSIS REPORT



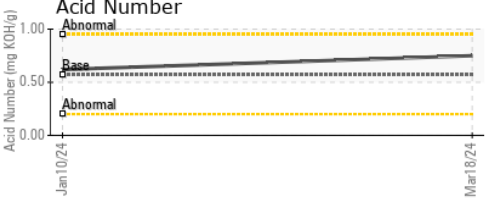
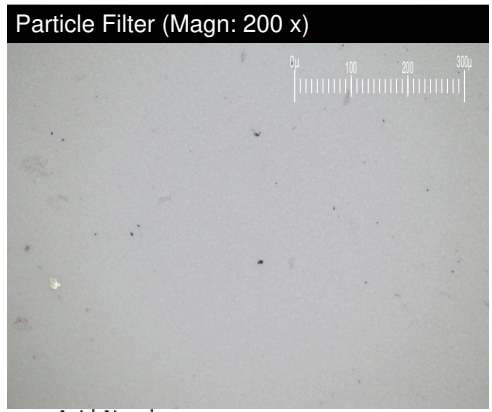
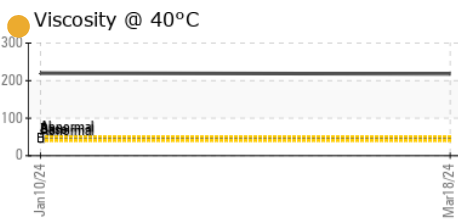
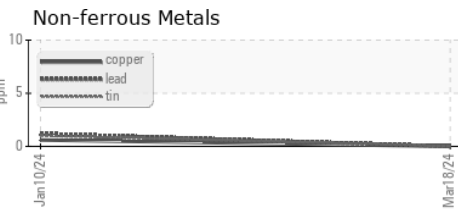
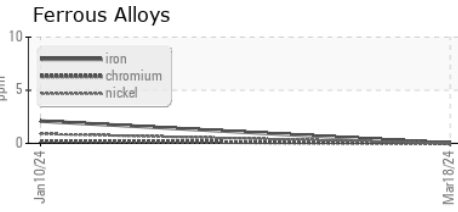
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.05	NEG	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 46	● 218	● 220	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : PH0003648 **Received** : 19 Mar 2024
Lab Number : 06122304 **Tested** : 21 Mar 2024
Unique Number : 10936455 **Diagnosed** : 21 Mar 2024 - Jonathan Hester
Test Package : PLANT (Additional Tests: PrtFilter)

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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)