



OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
843
 Component
Hydraulic System
 Fluid
{not provided} (--- GAL)

DIAGNOSIS

Recommendation

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of silt (particulates < 14 microns in size) 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 INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RH0002001	---	---
Sample Date	Client Info	21 Feb 2024	---	---
Machine Age	hrs	Client Info	4449	---
Oil Age	hrs	Client Info	1	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ABNORMAL	---	---

CONTAMINATION

method	limit/base	current	history1	history2
Water	WC Method	>0.1	NEG	---

WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184	14	---	---	
Iron	ppm	ASTM D5185m	>20	0	---
Chromium	ppm	ASTM D5185m	>10	0	---
Nickel	ppm	ASTM D5185m	>10	0	---
Titanium	ppm	ASTM D5185m		0	---
Silver	ppm	ASTM D5185m		0	---
Aluminum	ppm	ASTM D5185m	>10	1	---
Lead	ppm	ASTM D5185m	>10	0	---
Copper	ppm	ASTM D5185m	>75	0	---
Tin	ppm	ASTM D5185m	>10	<1	---
Vanadium	ppm	ASTM D5185m		0	---
Cadmium	ppm	ASTM D5185m		0	---

ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		96	---
Barium	ppm	ASTM D5185m		0	---
Molybdenum	ppm	ASTM D5185m		0	---
Manganese	ppm	ASTM D5185m		0	---
Magnesium	ppm	ASTM D5185m		28	---
Calcium	ppm	ASTM D5185m		3209	---
Phosphorus	ppm	ASTM D5185m		1081	---
Zinc	ppm	ASTM D5185m		1365	---
Sulfur	ppm	ASTM D5185m		6262	---

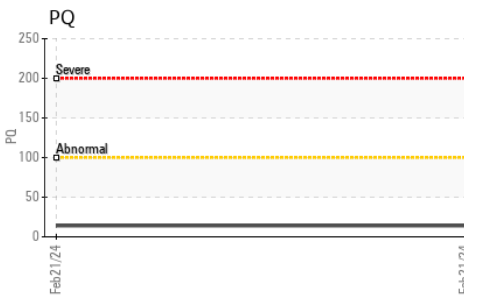
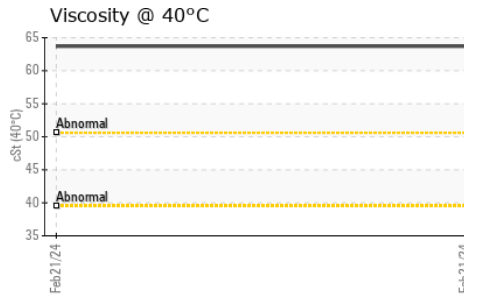
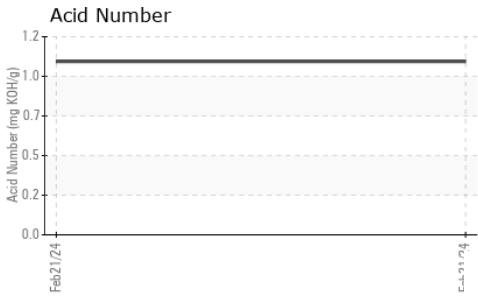
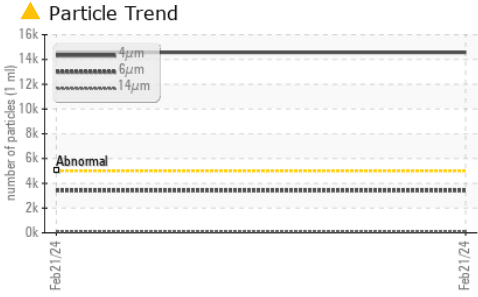
CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>20	13	---
Sodium	ppm	ASTM D5185m		0	---
Potassium	ppm	ASTM D5185m	>20	0	---

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 14568	---
Particles >6µm	ASTM D7647	>1300	▲ 3415	---
Particles >14µm	ASTM D7647	>160	104	---
Particles >21µm	ASTM D7647	>40	20	---
Particles >38µm	ASTM D7647	>10	1	---
Particles >71µm	ASTM D7647	>3	0	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 21/19/14	---

OIL ANALYSIS REPORT

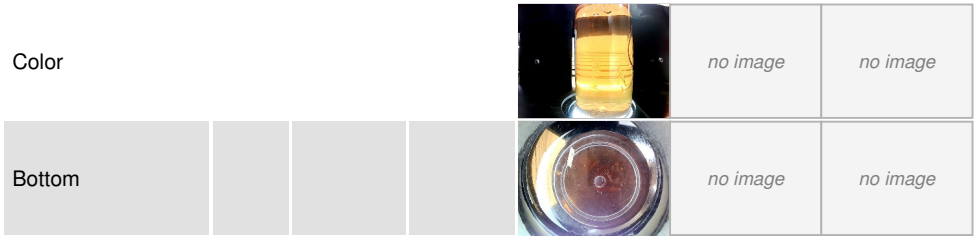


FLUID DEGRADATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.05	---	---

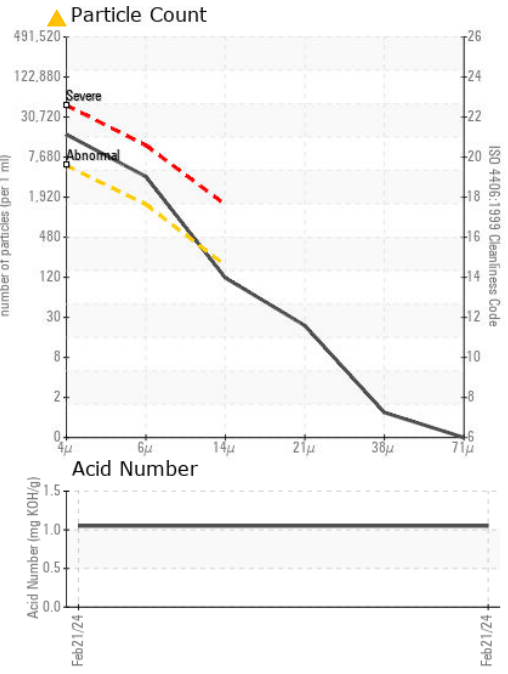
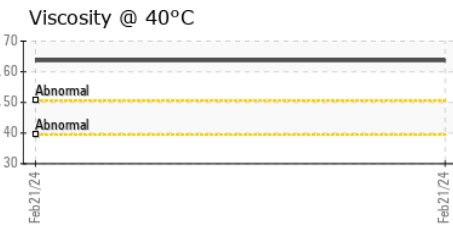
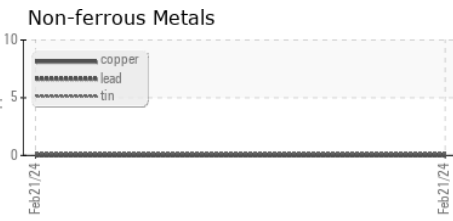
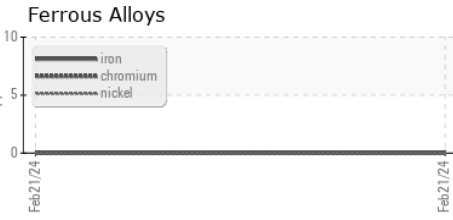
VISUAL	method	limit/base	current	history1	history2	
White Metal	scalar	*Visual	NONE	NONE	---	---
Yellow Metal	scalar	*Visual	NONE	NONE	---	---
Precipitate	scalar	*Visual	NONE	NONE	---	---
Silt	scalar	*Visual	NONE	NONE	---	---
Debris	scalar	*Visual	NONE	NONE	---	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---	---
Appearance	scalar	*Visual	NORML	NORML	---	---
Odor	scalar	*Visual	NORML	NORML	---	---
Emulsified Water	scalar	*Visual	>0.1	NEG	---	---
Free Water	scalar	*Visual		NEG	---	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	63.7	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RH0002001 **Received** : 23 Feb 2024
Lab Number : 06099101 **Tested** : 26 Feb 2024
Unique Number : 10897331 **Diagnosed** : 26 Feb 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: PQ)

GENERAL EXCAVATION
 9757 RIDER RD
 WARRENTON, VA
 US 20187
 Contact: JERRY WEAVER

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)

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