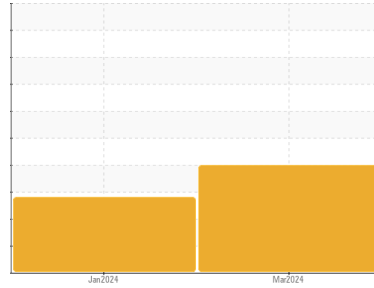




OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
RTV83333

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. Elemental level of silicon (Si) above normal indicating ingress of seal material.

● Fluid Condition

Viscosity of sample indicates oil is within ISO 320 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			PH0000996	PH0000255	---
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	---

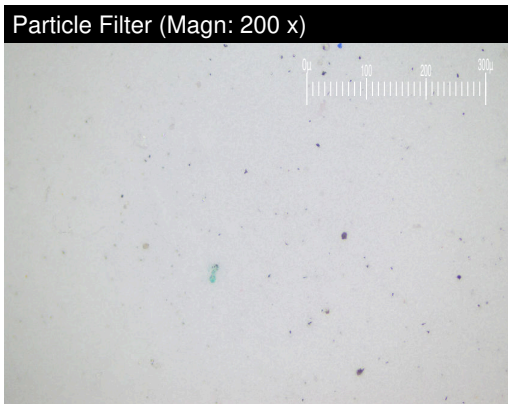
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	0	3	---
Chromium	ppm	ASTM D5185m	>20	0	<1	---
Nickel	ppm	ASTM D5185m	>20	0	1	---
Titanium	ppm	ASTM D5185m		0	<1	---
Silver	ppm	ASTM D5185m		0	0	---
Aluminum	ppm	ASTM D5185m	>20	0	2	---
Lead	ppm	ASTM D5185m	>20	0	<1	---
Copper	ppm	ASTM D5185m	>20	0	<1	---
Tin	ppm	ASTM D5185m	>20	<1	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	<1	0	---
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	<1	---
Calcium	ppm	ASTM D5185m	200	0	<1	---
Phosphorus	ppm	ASTM D5185m	300	454	478	---
Zinc	ppm	ASTM D5185m	370	0	0	---
Sulfur	ppm	ASTM D5185m	2500	2563	2609	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ 23	13	---
Sodium	ppm	ASTM D5185m		0	0	---
Potassium	ppm	ASTM D5185m	>20	0	<1	---

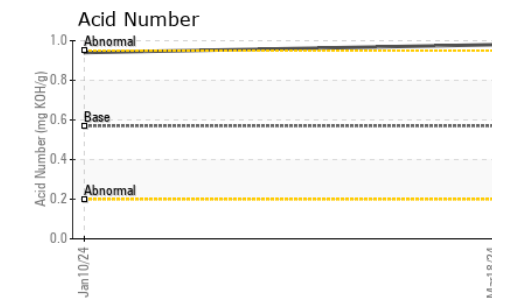
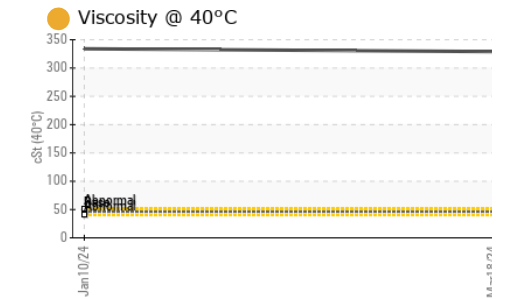
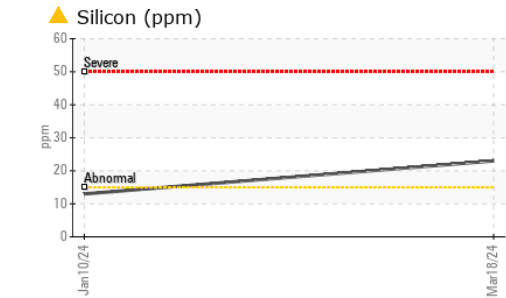
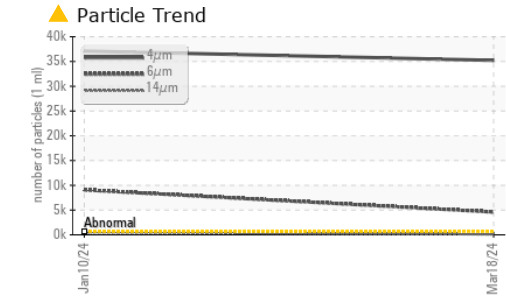
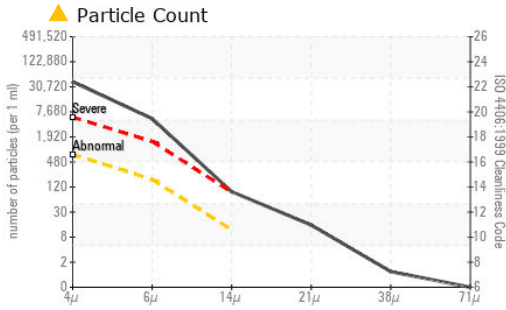
FLUID CLEANLINESS		method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>640	▲ 35222	▲ 37104	---	
Particles >6µm	ASTM D7647	>160	▲ 4595	▲ 9073	---	
Particles >14µm	ASTM D7647	>10	▲ 82	▲ 515	---	
Particles >21µm	ASTM D7647	>3	▲ 13	▲ 131	---	
Particles >38µm	ASTM D7647	>3	1	▲ 8	---	
Particles >71µm	ASTM D7647	>3	0	1	---	
Oil Cleanliness	ISO 4406 (c)	>16/14/10	▲ 22/19/14	▲ 22/20/16	---	

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.98	0.94	---





OIL ANALYSIS REPORT



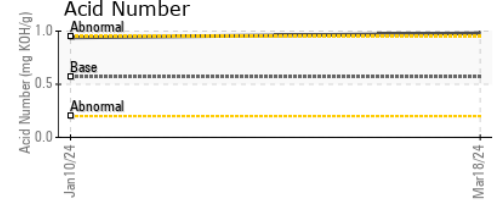
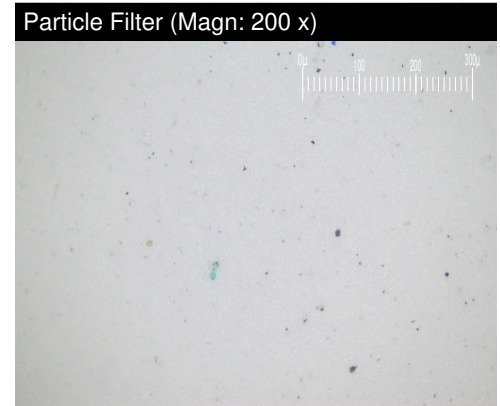
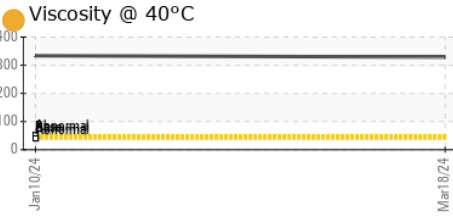
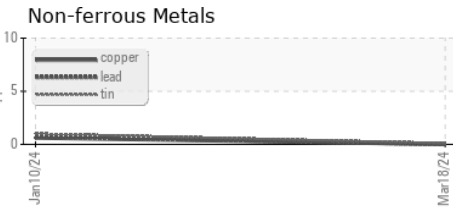
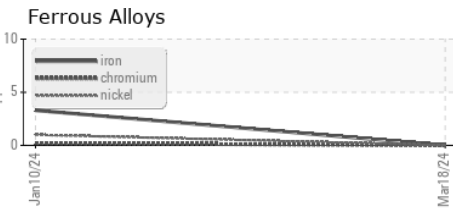
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*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	329	334	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : PH0000996
 Lab Number : 06122310
 Unique Number : 10936461
 Test Package : PLANT (Additional Tests: PrtFilter)

Received : 19 Mar 2024
 Tested : 21 Mar 2024
 Diagnosed : 21 Mar 2024 - Jonathan Hester

UNIVERSAL STUDIOS HOLLYWOOD
 100 UNIVERSAL CITY PLAZA
 UNIVERSAL CITY, CA
 US 91608
 Contact: TS WAREHOUSE
 ts.warehouse@nbcuni.com

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)

T:
F: