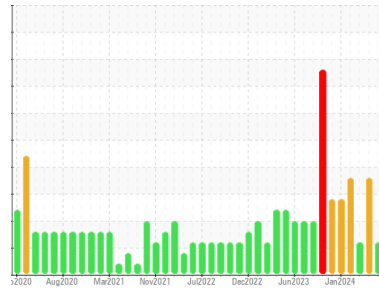




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id

CYLINDER BENCH

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 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		RH0002036	RH0002050	RH0002020
Sample Date	Client Info		03 Jun 2024	02 May 2024	01 Apr 2024
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	SEVERE	ABNORMAL

CONTAMINATION

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

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		14	22	22
Iron	ppm	ASTM D5185m >20	6	0	3
Chromium	ppm	ASTM D5185m >10	<1	<1	<1
Nickel	ppm	ASTM D5185m >10	0	0	<1
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	0	2
Lead	ppm	ASTM D5185m >10	0	0	1
Copper	ppm	ASTM D5185m >75	<1	<1	2
Tin	ppm	ASTM D5185m >10	<1	0	1
Vanadium	ppm	ASTM D5185m	0	0	<1
Cadmium	ppm	ASTM D5185m	0	0	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	21	12	11
Barium	ppm	ASTM D5185m 5	0	0	<1
Molybdenum	ppm	ASTM D5185m 5	10	5	6
Manganese	ppm	ASTM D5185m	0	<1	<1
Magnesium	ppm	ASTM D5185m 25	49	34	31
Calcium	ppm	ASTM D5185m 200	441	280	316
Phosphorus	ppm	ASTM D5185m 300	368	402	464
Zinc	ppm	ASTM D5185m 370	424	419	463
Sulfur	ppm	ASTM D5185m 2500	1846	2056	2176

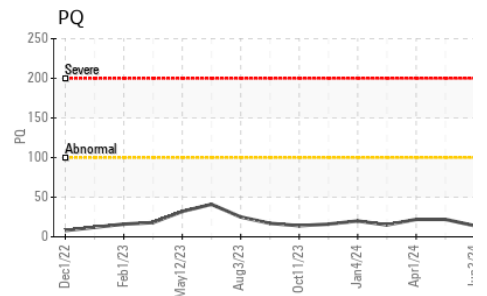
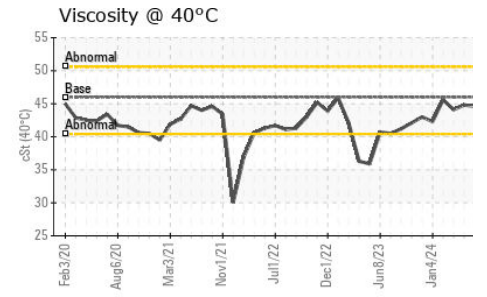
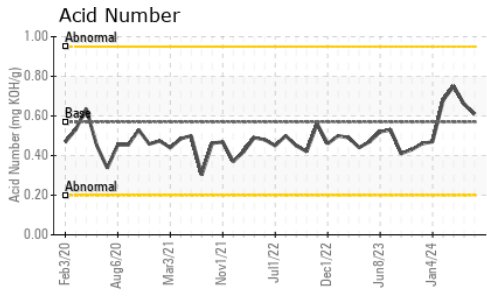
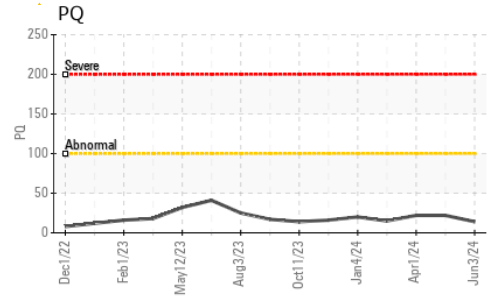
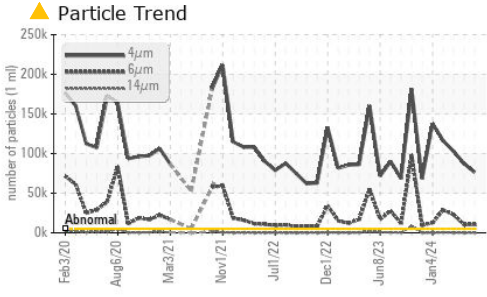
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	12	14	15
Sodium	ppm	ASTM D5185m	4	2	3
Potassium	ppm	ASTM D5185m >20	2	2	2

FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 76384	▲ 87276	▲ 102686
Particles >6µm	ASTM D7647	>1300	▲ 10389	▲ 10355	▲ 22907
Particles >14µm	ASTM D7647	>160	103	70	135
Particles >21µm	ASTM D7647	>40	24	8	16
Particles >38µm	ASTM D7647	>10	1	0	1
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 23/21/14	▲ 24/21/13	▲ 24/22/14

OIL ANALYSIS REPORT

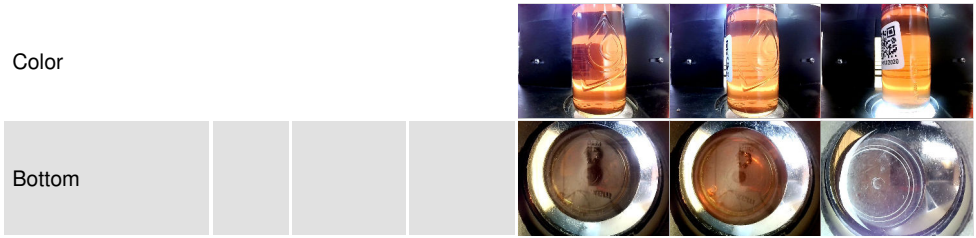


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.61	0.66	0.75

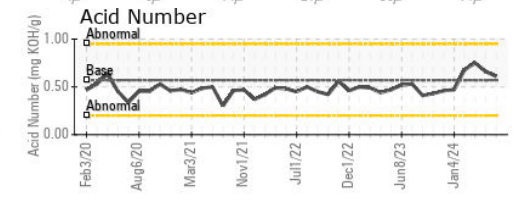
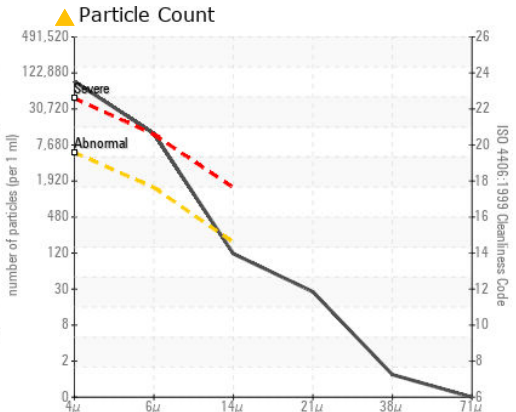
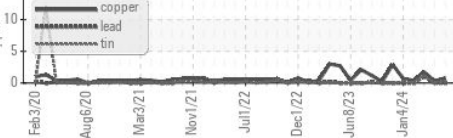
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual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

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	44.6	44.8	44.1

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RH0002036 **Received** : 04 Jun 2024
Lab Number : **06199007** **Tested** : 05 Jun 2024
Unique Number : 11061130 **Diagnosed** : 06 Jun 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: PQ)

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 ASHLAND, VA
 US 23005
 Contact: PATRICK SOHNLY
 psohnly@riversidehydraulics.com
 T: (804)545-6700
 F:

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)