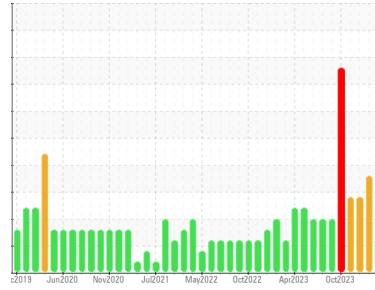




OIL ANALYSIS REPORT

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		RH0002020	RH0001977	RH0002010
Sample Date	Client Info		01 Apr 2024	01 Mar 2024	04 Jan 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	ABNORMAL	ABNORMAL

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

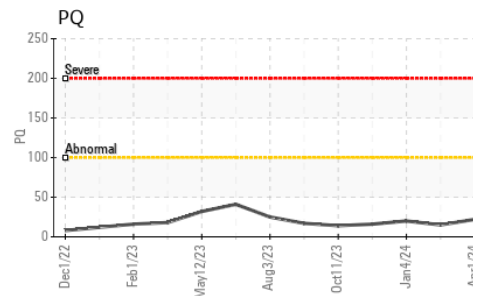
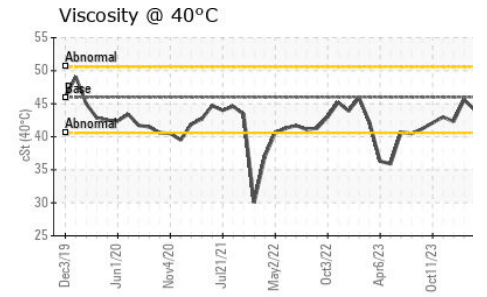
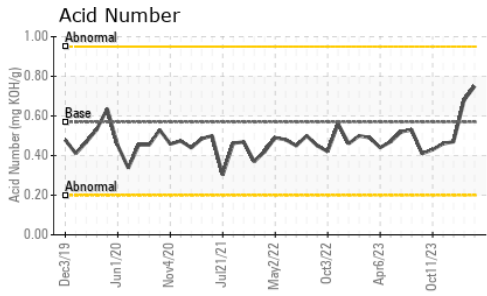
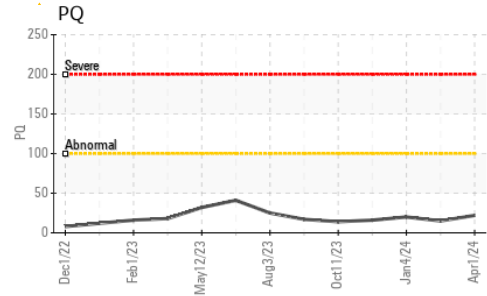
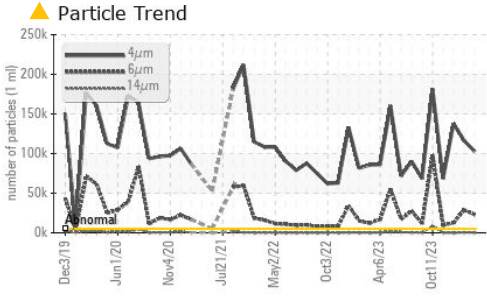
WEAR METALS	method	limit/base	current	history1	history2
PQ	ASTM D8184		22	15	20
Iron	ppm	ASTM D5185m >20	3	3	2
Chromium	ppm	ASTM D5185m >10	<1	0	<1
Nickel	ppm	ASTM D5185m >10	<1	0	0
Titanium	ppm	ASTM D5185m	<1	0	<1
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >10	2	<1	1
Lead	ppm	ASTM D5185m >10	1	0	0
Copper	ppm	ASTM D5185m >75	2	<1	<1
Tin	ppm	ASTM D5185m >10	1	0	<1
Vanadium	ppm	ASTM D5185m	<1	0	0
Cadmium	ppm	ASTM D5185m	<1	0	0

ADDITIVES	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	11	14	21
Barium	ppm	ASTM D5185m 5	<1	2	11
Molybdenum	ppm	ASTM D5185m 5	6	4	2
Manganese	ppm	ASTM D5185m	<1	0	0
Magnesium	ppm	ASTM D5185m 25	31	27	13
Calcium	ppm	ASTM D5185m 200	316	320	264
Phosphorus	ppm	ASTM D5185m 300	464	457	299
Zinc	ppm	ASTM D5185m 370	463	487	336
Sulfur	ppm	ASTM D5185m 2500	2176	2397	2832

CONTAMINANTS	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	15	▲ 23	▲ 49
Sodium	ppm	ASTM D5185m	3	2	3
Potassium	ppm	ASTM D5185m >20	2	1	1

FLUID CLEANLINESS	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	▲ 102686	▲ 116277	▲ 137750
Particles >6µm	ASTM D7647	>1300	▲ 22907	▲ 28853	▲ 12799
Particles >14µm	ASTM D7647	>160	135	▲ 601	46
Particles >21µm	ASTM D7647	>40	16	▲ 102	9
Particles >38µm	ASTM D7647	>10	1	2	0
Particles >71µm	ASTM D7647	>3	0	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	▲ 24/22/14	▲ 24/22/16	▲ 24/21/13

OIL ANALYSIS REPORT

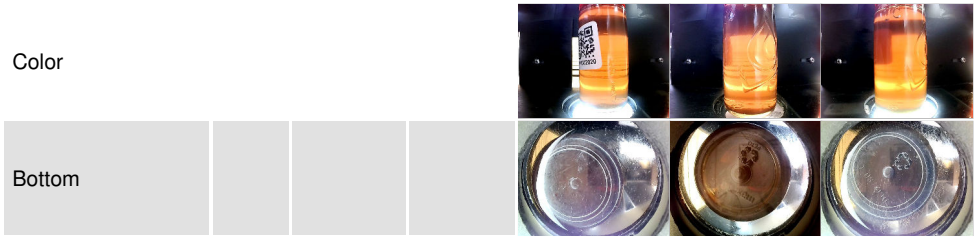


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.75	0.68	0.47

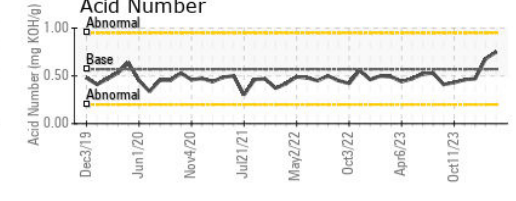
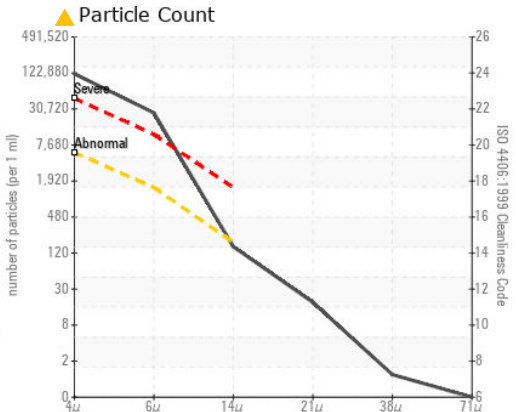
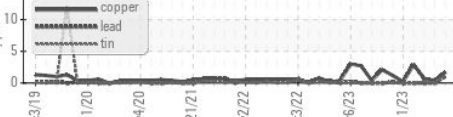
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	44.1	45.6	42.3

SAMPLE IMAGES



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RH0002020 **Received** : 02 Apr 2024
Lab Number : **06136258** **Tested** : 03 Apr 2024
Unique Number : 10955723 **Diagnosed** : 04 Apr 2024 - Don Baldrige
Test Package : MOB 2 (Additional Tests: PQ)

RIVERSIDE HYDRAULICS
 11027 LEADBETTER RD
 ASHLAND, VA
 US 23005

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)