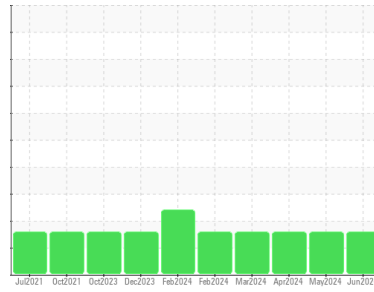




OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id
HYDRAULIC TEST STAND AIDCO 900C-400 (S/N 130901)
 Component
Hydraulic System
 Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. The amount and size of particulates present in the system are acceptable.

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	RH0002037	RH0002049	RH0001883
Sample Date	Client Info	03 Jun 2024	01 May 2024	01 Apr 2024
Machine Age	hrs	2217	2201	2187
Oil Age	hrs	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	14	16	16
Iron	ppm ASTM D5185m >20	2	0	2
Chromium	ppm ASTM D5185m >10	<1	<1	<1
Nickel	ppm ASTM D5185m >10	0	0	<1
Titanium	ppm ASTM D5185m	0	0	<1
Silver	ppm ASTM D5185m	0	0	0
Aluminum	ppm ASTM D5185m >10	1	0	2
Lead	ppm ASTM D5185m >10	2	<1	3
Copper	ppm ASTM D5185m >75	53	53	50
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	4	4	4
Barium	ppm ASTM D5185m 5	0	0	0
Molybdenum	ppm ASTM D5185m 5	2	2	3
Manganese	ppm ASTM D5185m	0	<1	<1
Magnesium	ppm ASTM D5185m 25	9	9	8
Calcium	ppm ASTM D5185m 200	120	123	130
Phosphorus	ppm ASTM D5185m 300	356	398	417
Zinc	ppm ASTM D5185m 370	110	105	112
Sulfur	ppm ASTM D5185m 2500	809	958	903

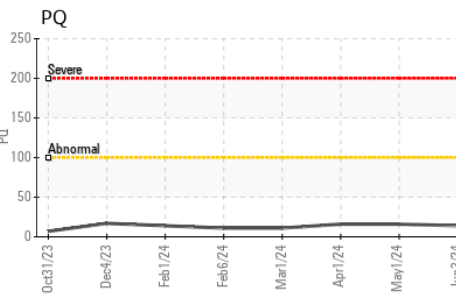
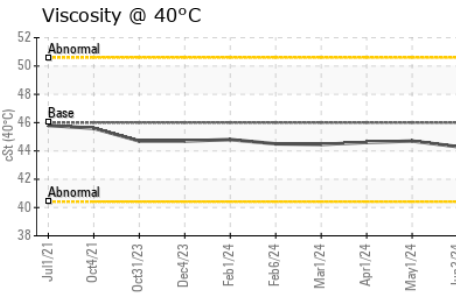
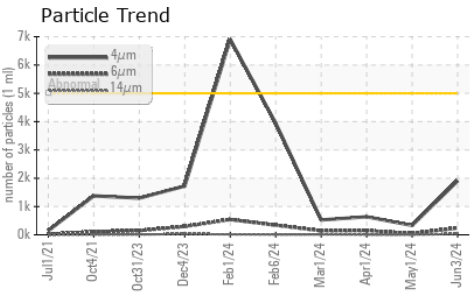
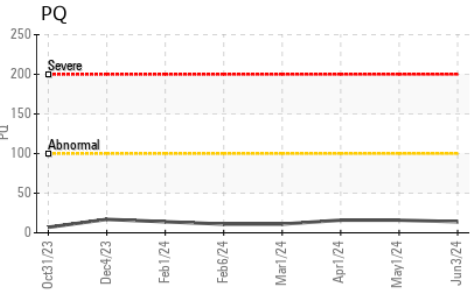
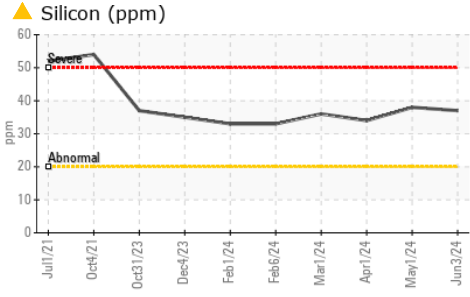
CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >20	▲ 37	▲ 38	▲ 34
Sodium	ppm ASTM D5185m	3	3	2
Potassium	ppm ASTM D5185m >20	3	2	4

FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	1907	332	638
Particles >6µm	ASTM D7647 >1300	243	47	150
Particles >14µm	ASTM D7647 >160	31	3	5
Particles >21µm	ASTM D7647 >40	21	2	2
Particles >38µm	ASTM D7647 >10	2	0	1
Particles >71µm	ASTM D7647 >3	0	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	18/15/12	16/13/9	16/14/10

OIL ANALYSIS REPORT

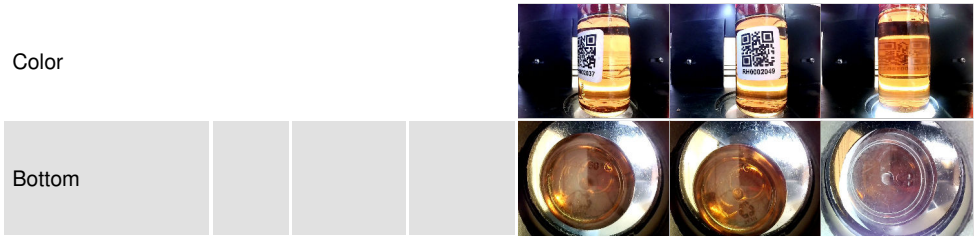


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.57	0.17	0.22	0.19

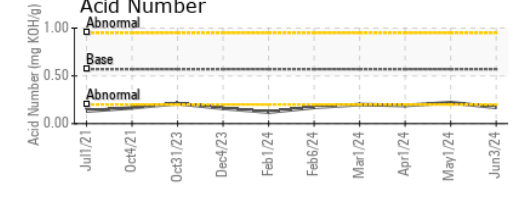
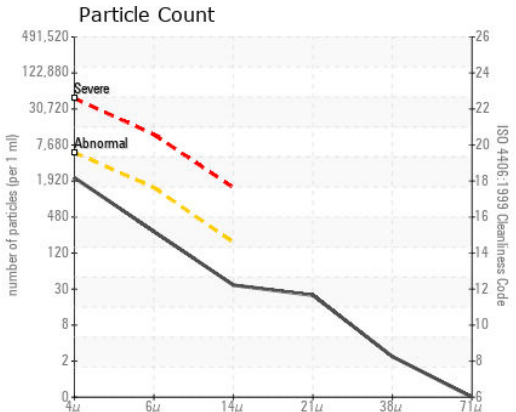
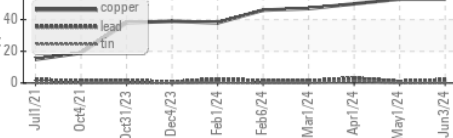
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	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	44.3	44.7	44.6

SAMPLE IMAGES		method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RH0002037 **Received** : 04 Jun 2024
Lab Number : 06199008 **Tested** : 06 Jun 2024
Unique Number : 11061131 **Diagnosed** : 06 Jun 2024 - Jonathan Hester
Test Package : MOB 2 (Additional Tests: PQ)

RIVERSIDE HYDRAULICS
 11027 LEADBETTER RD
 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)