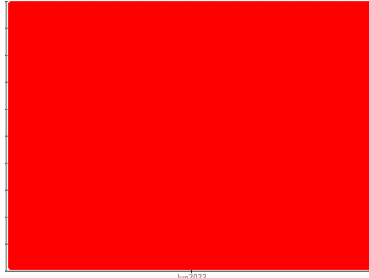




OIL ANALYSIS REPORT

Sample Rating Trend

WEAR



Area
[W06876]

Machine Id
CG-70

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 46 (--- GAL)

DIAGNOSIS

Recommendation

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil and perform a filter service on this component if not already done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

Wear

The iron level is severe.

Contamination

There is a moderate amount of particulates present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The oil is no longer serviceable due to the presence of contaminants.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		RH0001679	---	---
Sample Date	Client Info		20 Jun 2023	---	---
Machine Age	hrs	Client Info	50	---	---
Oil Age	hrs	Client Info	0	---	---
Oil Changed	Client Info		N/A	---	---
Sample Status			SEVERE	---	---

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		26	---	---
Iron	ppm	ASTM D5185m >20	370	---	---
Chromium	ppm	ASTM D5185m >10	3	---	---
Nickel	ppm	ASTM D5185m >10	1	---	---
Titanium	ppm	ASTM D5185m	4	---	---
Silver	ppm	ASTM D5185m	0	---	---
Aluminum	ppm	ASTM D5185m >10	43	---	---
Lead	ppm	ASTM D5185m >10	3	---	---
Copper	ppm	ASTM D5185m >75	59	---	---
Tin	ppm	ASTM D5185m >10	1	---	---
Vanadium	ppm	ASTM D5185m	<1	---	---
Cadmium	ppm	ASTM D5185m	0	---	---

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	18	---	---
Barium	ppm	ASTM D5185m 5	2	---	---
Molybdenum	ppm	ASTM D5185m 5	7	---	---
Manganese	ppm	ASTM D5185m	4	---	---
Magnesium	ppm	ASTM D5185m 25	28	---	---
Calcium	ppm	ASTM D5185m 200	139	---	---
Phosphorus	ppm	ASTM D5185m 300	293	---	---
Zinc	ppm	ASTM D5185m 370	343	---	---
Sulfur	ppm	ASTM D5185m 2500	2875	---	---

CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	186	---	---
Sodium	ppm	ASTM D5185m	2	---	---
Potassium	ppm	ASTM D5185m >20	17	---	---
Water	%	ASTM D6304 >0.1	0.172	---	---
ppm Water	ppm	ASTM D6304 >1000	1720	---	---

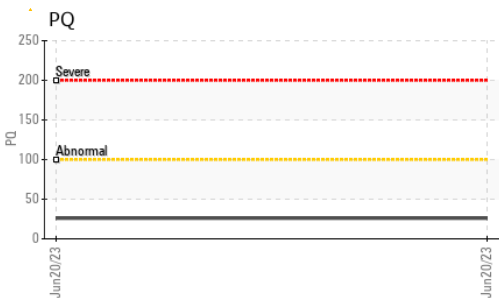
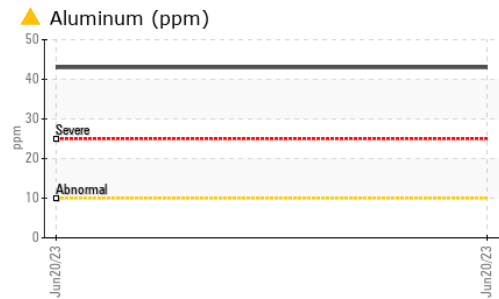
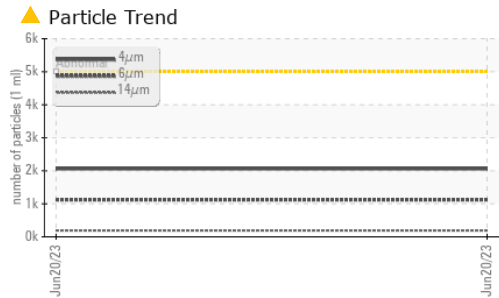
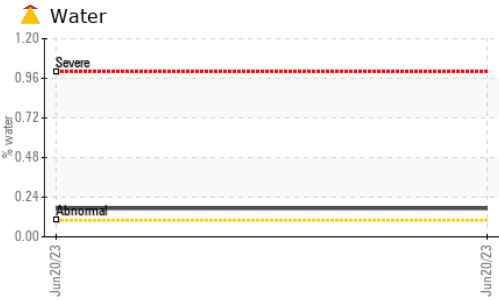
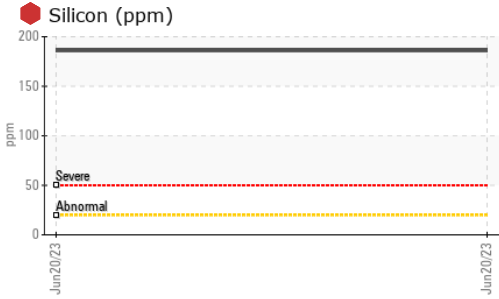
FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	2062	---	---
Particles >6µm	ASTM D7647	>1300	1123	---	---
Particles >14µm	ASTM D7647	>160	191	---	---
Particles >21µm	ASTM D7647	>40	64	---	---
Particles >38µm	ASTM D7647	>10	10	---	---
Particles >71µm	ASTM D7647	>3	1	---	---
Oil Cleanliness	ISO 4406 (c)	>19/17/14	18/17/15	---	---

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.38	---	---

OIL ANALYSIS REPORT



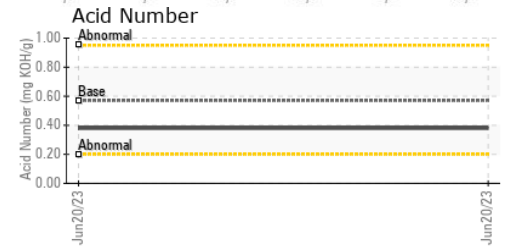
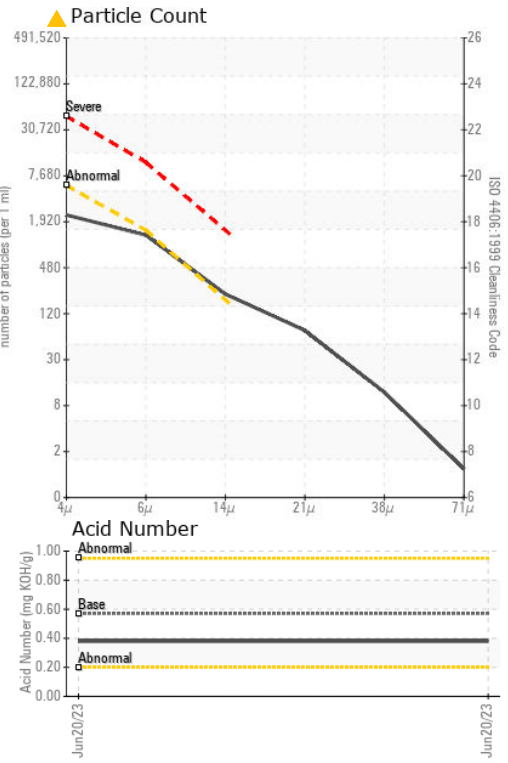
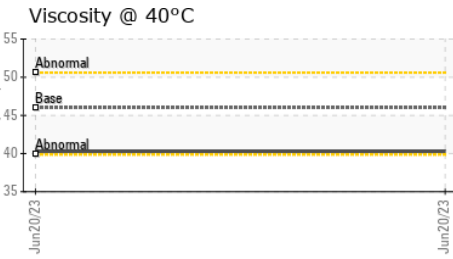
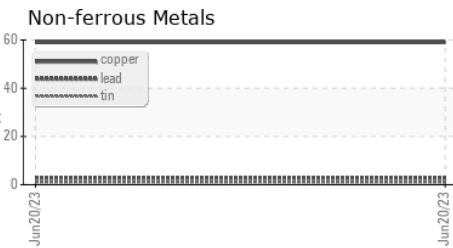
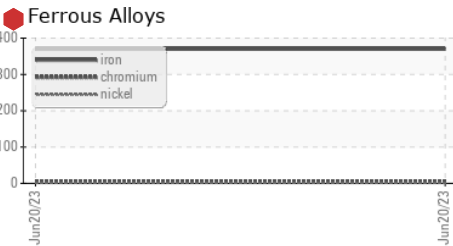
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar	*Visual	NORML	NORML	---
Odor	scalar	*Visual	NORML	NORML	---
Emulsified Water	scalar	*Visual	>0.1	0.2%	---
Free Water	scalar	*Visual		NEG	---

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	46	40.3	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RH0001679 **Received** : 21 Jun 2023
Lab Number : 05879407 **Diagnosed** : 29 Jun 2023
Unique Number : 10524510 **Diagnostician** : Jonathan Hester
Test Package : MOB 2 (Additional Tests: KF, PQ)

RIVERSIDE HYDRAULICS
 11027 LEADBETTER RD
 ASHLAND, VA
 US 23005
 Contact: PATRICK SOHNLY
 psohnly@riversidehydraulics.com
 T: (804)545-6700
 F:

Certificate L2367
 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)