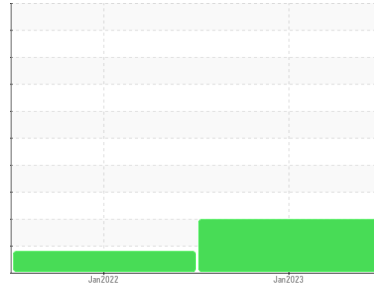




OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
2250446

Component
Hydraulic System

Fluid
AW HYDRAULIC OIL ISO 32 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. 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.

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	WC0636328	WC0636285	---
Sample Date	Client Info	27 Jan 2023	27 Jan 2022	---
Machine Age	hrs	Client Info	0	0
Oil Age	hrs	Client Info	0	0
Oil Changed	Client Info	Not Changed	Not Changed	---
Sample Status		ABNORMAL	ABNORMAL	---

WEAR METALS

method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	15	16
Chromium	ppm	ASTM D5185m >10	<1	<1
Nickel	ppm	ASTM D5185m >10	0	0
Titanium	ppm	ASTM D5185m	0	0
Silver	ppm	ASTM D5185m	0	0
Aluminum	ppm	ASTM D5185m >10	<1	0
Lead	ppm	ASTM D5185m >10	0	<1
Copper	ppm	ASTM D5185m >75	30	37
Tin	ppm	ASTM D5185m >10	<1	0
Antimony	ppm	ASTM D5185m	---	0
Vanadium	ppm	ASTM D5185m	0	0
Cadmium	ppm	ASTM D5185m	0	0

ADDITIVES

method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 5	0	2
Barium	ppm	ASTM D5185m 5	0	0
Molybdenum	ppm	ASTM D5185m 5	0	<1
Manganese	ppm	ASTM D5185m	<1	<1
Magnesium	ppm	ASTM D5185m 25	7	<1
Calcium	ppm	ASTM D5185m 200	86	95
Phosphorus	ppm	ASTM D5185m 300	321	363
Zinc	ppm	ASTM D5185m 370	348	352
Sulfur	ppm	ASTM D5185m 2500	3850	3240

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >20	4	4
Sodium	ppm	ASTM D5185m	2	0
Potassium	ppm	ASTM D5185m >20	<1	<1
Water	%	ASTM D6304 >0.1	0.079	---
ppm Water	ppm	ASTM D6304 >1000	790	---

FLUID CLEANLINESS

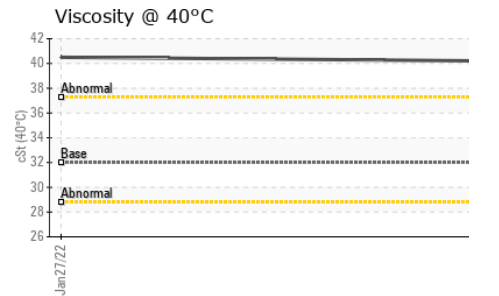
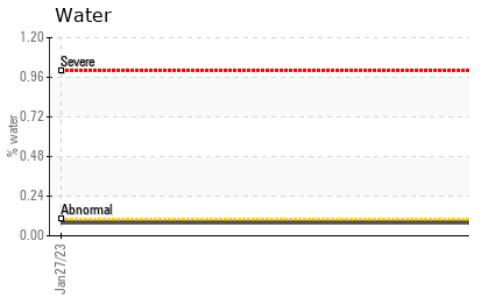
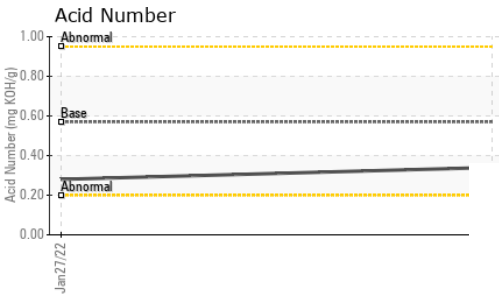
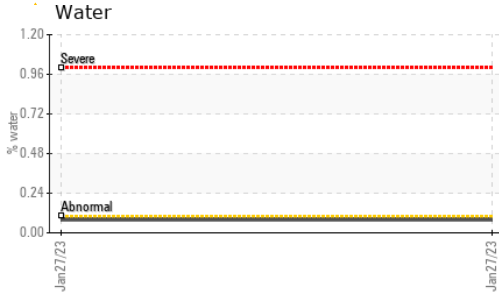
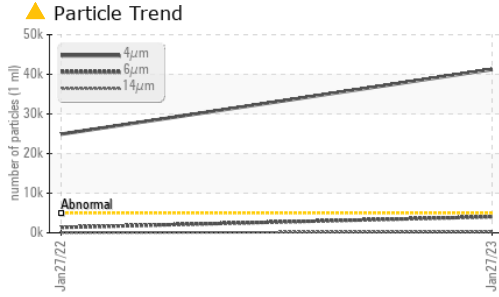
method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	▲ 41231	▲ 24896	---
Particles >6µm	ASTM D7647 >1300	▲ 4037	▲ 1366	---
Particles >14µm	ASTM D7647 >160	▲ 243	49	---
Particles >21µm	ASTM D7647 >40	▲ 47	8	---
Particles >38µm	ASTM D7647 >10	0	0	---
Particles >71µm	ASTM D7647 >3	0	0	---
Oil Cleanliness	ISO 4406 (c) >19/17/14	▲ 23/19/15	▲ 22/18/13	---

FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045 0.57	0.34	0.28



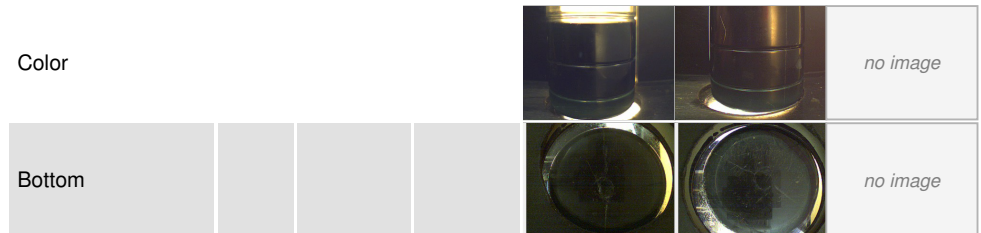
OIL ANALYSIS REPORT



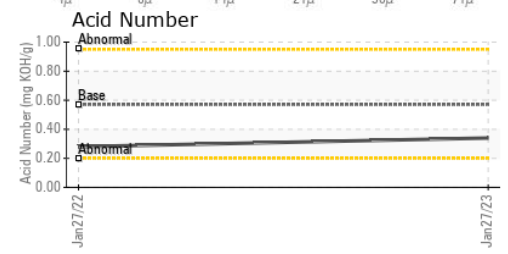
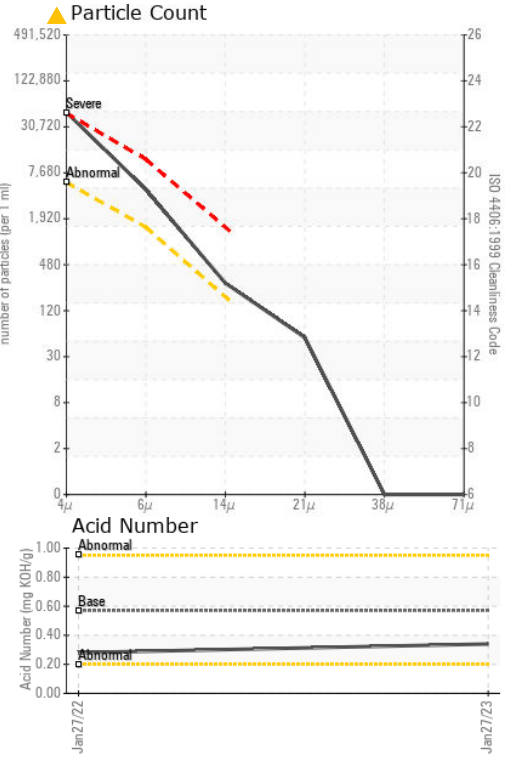
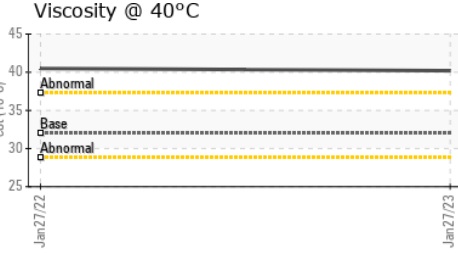
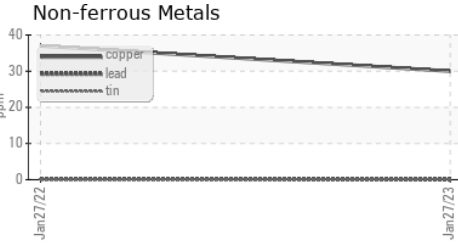
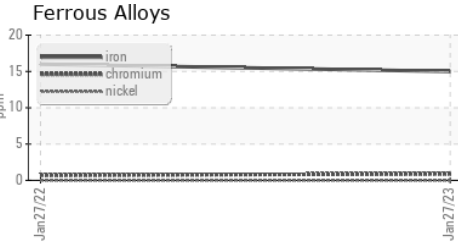
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	---
Yellow Metal	scalar	*Visual	NONE	NONE	---
Precipitate	scalar	*Visual	NONE	NONE	---
Silt	scalar	*Visual	NONE	NONE	---
Debris	scalar	*Visual	NONE	NONE	---
Sand/Dirt	scalar	*Visual	NONE	NONE	---
Appearance	scalar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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 32	40.2	40.5	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0636328 **Received** : 14 Aug 2023
Lab Number : 05924217 **Diagnosed** : 15 Aug 2023
Unique Number : 10604164 **Diagnostician** : Don Baldrige
Test Package : MOB 2 (Additional Tests: KF)

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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)