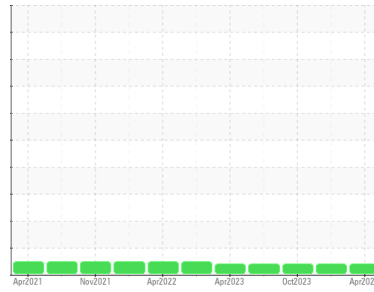




OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id

PRO RECOILER

Component

Gearbox

Fluid

SHELL OMALA S2 GX 320 (76 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

There is no indication of any contamination in the oil.

Fluid Condition

Viscosity of sample indicates oil is within ISO 220 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0879233	WC0875624	WC0830758
Sample Date	Client Info		19 Apr 2024	16 Jan 2024	16 Oct 2023
Machine Age	mths	Client Info	0	0	0
Oil Age	mths	Client Info	0	0	0
Oil Changed	Client Info		N/A	N/A	N/A
Sample Status			ATTENTION	ATTENTION	ATTENTION

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		21	18	---
Iron	ppm	ASTM D5185m >200	47	39	41
Chromium	ppm	ASTM D5185m >15	<1	<1	0
Nickel	ppm	ASTM D5185m >15	<1	<1	0
Titanium	ppm	ASTM D5185m	<1	<1	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >25	2	3	0
Lead	ppm	ASTM D5185m >100	<1	<1	0
Copper	ppm	ASTM D5185m >200	<1	<1	0
Tin	ppm	ASTM D5185m >25	<1	<1	0
Vanadium	ppm	ASTM D5185m	<1	<1	0
Cadmium	ppm	ASTM D5185m	<1	<1	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m 6.2	4	6	2
Barium	ppm	ASTM D5185m 0.0	0	0	9
Molybdenum	ppm	ASTM D5185m 0	<1	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	0
Magnesium	ppm	ASTM D5185m 0	1	0	0
Calcium	ppm	ASTM D5185m 0.0	22	14	17
Phosphorus	ppm	ASTM D5185m 290	284	283	255
Zinc	ppm	ASTM D5185m 3.8	14	<1	22
Sulfur	ppm	ASTM D5185m 8167	12707	14008	10942

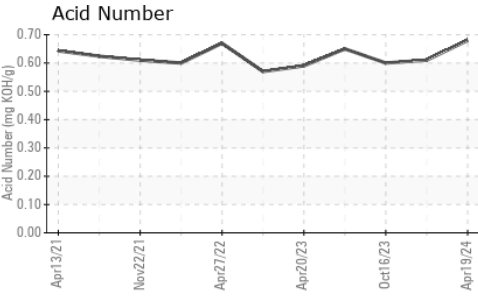
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >50	5	5	4
Sodium	ppm	ASTM D5185m	2	0	3
Potassium	ppm	ASTM D5185m >20	2	3	1
Water	%	ASTM D6304 >0.2	NEG	NEG	NEG

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.68	0.61	0.60

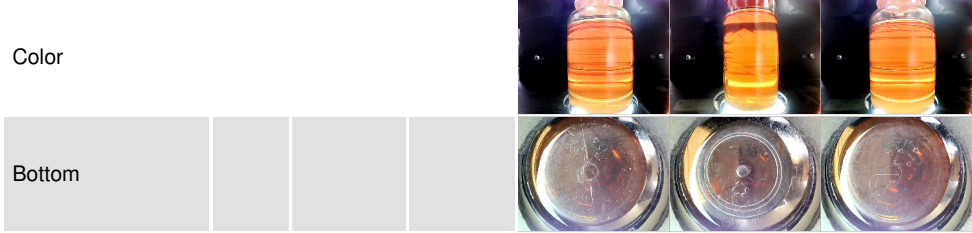
OIL ANALYSIS REPORT



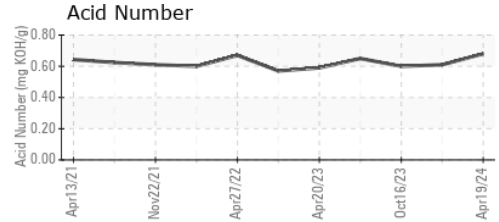
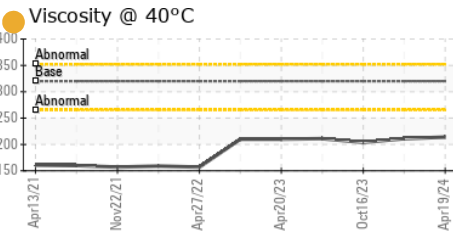
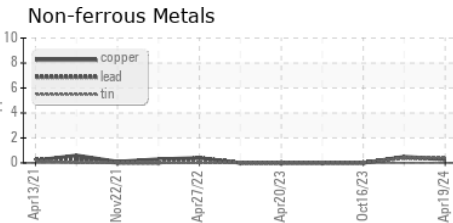
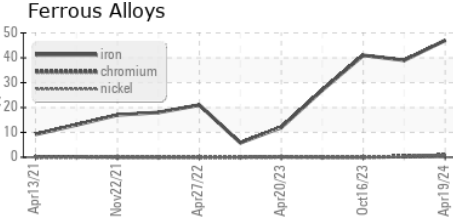
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	320 ● 214	211	204

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0879233
Lab Number : 06159281
Unique Number : 10994704
Test Package : PLANT

Received : 24 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Jonathan Hester

ALL METALS PROCESSING & LOGISTICS
 100 ALL METALS DR
 CARTERSVILLE, GA
 US 30120
 Contact: JASON WEISS
 jasonweiss@allmetals.com
 T: (770)427-7379
 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)