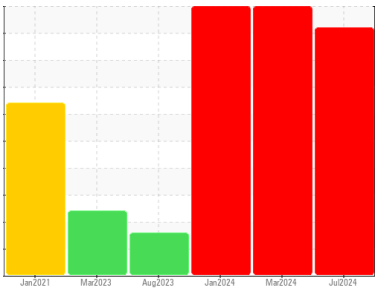
PROBLEM SUMMARY

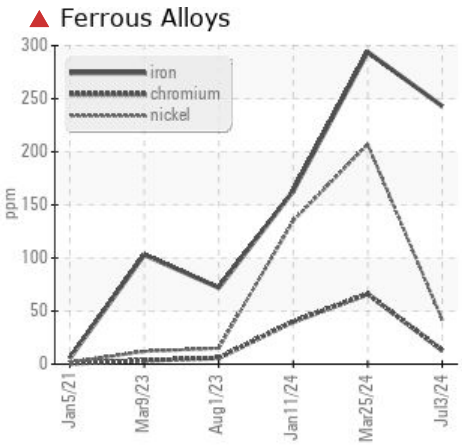
Sample Rating Trend

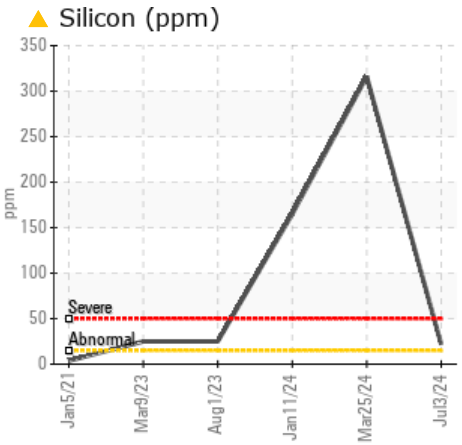


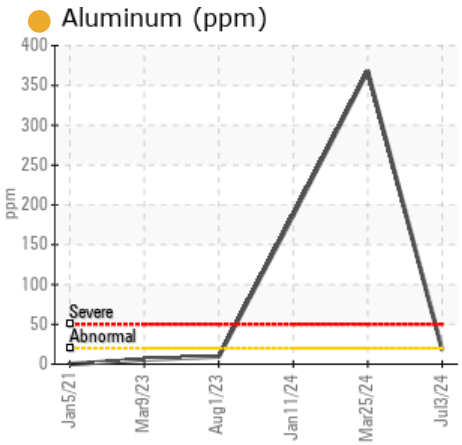
WEAR

Machine Id
PRESS 1 (S/N 420-235)
Component
Southwest Roller Bearing
Fluid
ROYAL PURPLE THERMYL-GLYDE 1500 (--- GAL)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

PROBLEMATIC TEST RESULTS

Sample Status				**SEVERE**	SEVERE	SEVERE
Iron	ppm	ASTM D5185m	>20	▲ **243**	▲ 294	▲ 163
Nickel	ppm	ASTM D5185m	>20	▲ **42**	▲ 207	▲ 135
Silicon	ppm	ASTM D5185m	>15	▲ **22**	▲ 316	▲ 165

Customer Id: WEYNEW
Sample No.: WC0892353
Lab Number: 06236097
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Don Baldridge +1
don.b505@comcast.net

To change component or sample information:
Customer Service +1 1-800-237-1369
customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Inspect Wear Source	---	---	?	We advise that you inspect for the source(s) of wear.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.

HISTORICAL DIAGNOSIS

WEAR

25 Mar 2024 Diag: Jonathan Hester
We advise that you check all areas where dirt can enter the system. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.The iron level is severe. The chromium level is abnormal. The nickel level is severe. The aluminum level is severe. The copper level is abnormal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible. The AN level is acceptable for this fluid.

view report

WEAR

11 Jan 2024 Diag: Jonathan Hester
We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.The iron level is severe. The chromium level is abnormal. The nickel level is severe. The aluminum level is severe. The copper level is abnormal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The water content is negligible. The AN level is acceptable for this fluid.

view report

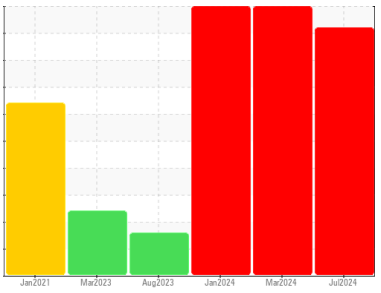
DIRT

01 Aug 2023 Diag: Don Baldridge
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WEAR

Machine Id
PRESS 1 (S/N 420-235)
Component
Southwest Roller Bearing
Fluid
ROYAL PURPLE THERMYL-GLYDE 1500 (--- GAL)

DIAGNOSIS

Recommendation
We advise that you check all areas where dirt can enter the system. 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. The nickel level is abnormal. Gear wear is indicated.

Contamination
Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The water content is negligible.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0892353**	WC0432395	WC0432376
Sample Date		Client Info		**03 Jul 2024**	25 Mar 2024	11 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				**SEVERE**	SEVERE	SEVERE

WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **243**	▲ 294	▲ 163
Chromium	ppm	ASTM D5185m	>20	**13**	▲ 66	▲ 40
Nickel	ppm	ASTM D5185m	>20	▲ **42**	▲ 207	▲ 135
Titanium	ppm	ASTM D5185m		**0**	<1	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	● **18**	▲ 368	▲ 187
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**6**	19	▲ 13
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**<1**	<1	0

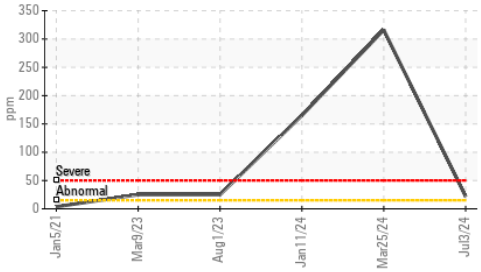
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**<1**	3	2
Barium	ppm	ASTM D5185m		**54**	70	84
Molybdenum	ppm	ASTM D5185m		**0**	6	4
Manganese	ppm	ASTM D5185m		**3**	4	2
Magnesium	ppm	ASTM D5185m		**0**	8	3
Calcium	ppm	ASTM D5185m		**7**	68	59
Phosphorus	ppm	ASTM D5185m		**295**	216	189
Zinc	ppm	ASTM D5185m		**6**	44	33
Sulfur	ppm	ASTM D5185m		**21217**	21177	22626

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	▲ **22**	▲ 316	▲ 165
Sodium	ppm	ASTM D5185m		**79**	86	40
Potassium	ppm	ASTM D5185m	>20	**9**	16	5
Water	%	ASTM D6304	>2	**0.008**	0.048	0.282
ppm Water	ppm	ASTM D6304		**83**	480	2820

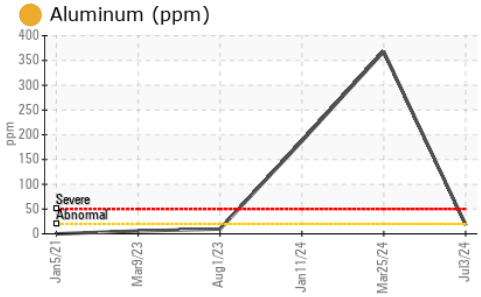
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.46**	0.88	0.62

OIL ANALYSIS REPORT

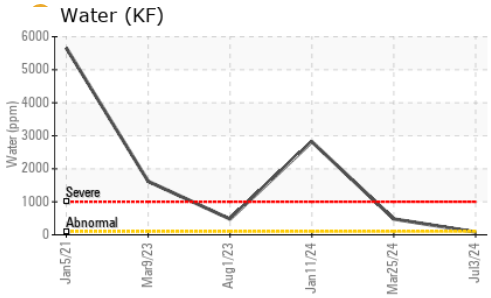
Silicon (ppm)



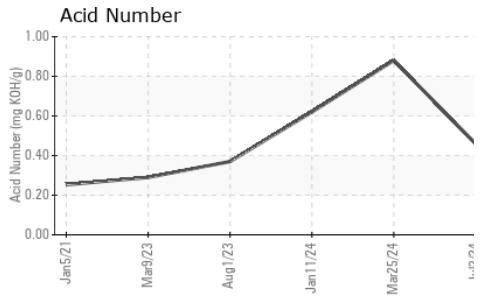
Aluminum (ppm)



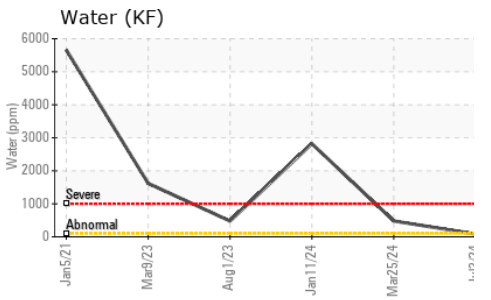
Water (KF)



Acid Number



Water (KF)



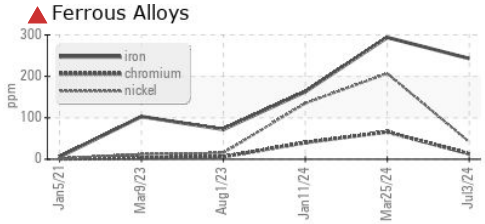
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	NORML
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>2	**NEG**	0.2%	0.2%
Free Water	scalar	*Visual		**NEG**	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	1500	**1391**	1579	1466

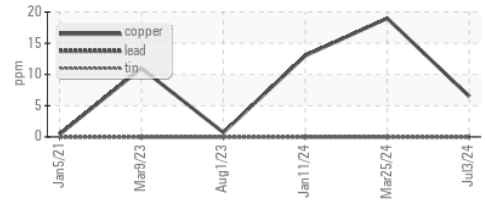
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS

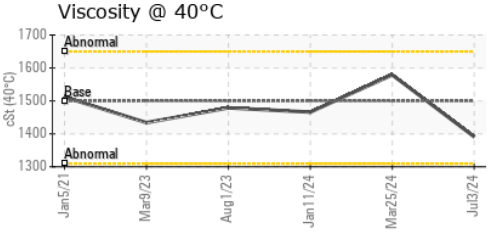
Ferrous Alloys



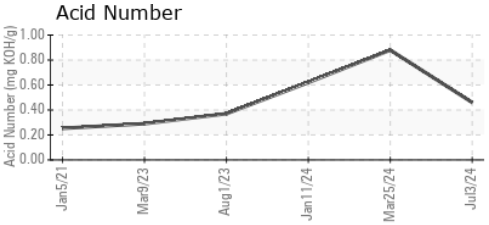
Non-ferrous Metals



Viscosity @ 40°C



Acid Number



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0892353
Lab Number : 06236097
Unique Number : 11124931
Test Package : IND 2 (Additional Tests: KF)

Received : 15 Jul 2024
Tested : 16 Jul 2024
Diagnosed : 17 Jul 2024 - Don Baldridge

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)

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