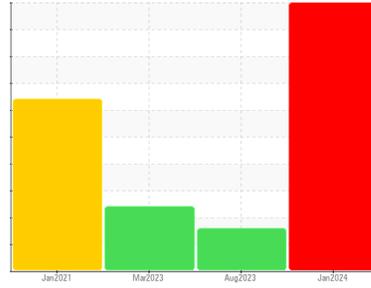




PROBLEM SUMMARY

Sample Rating Trend



WEAR

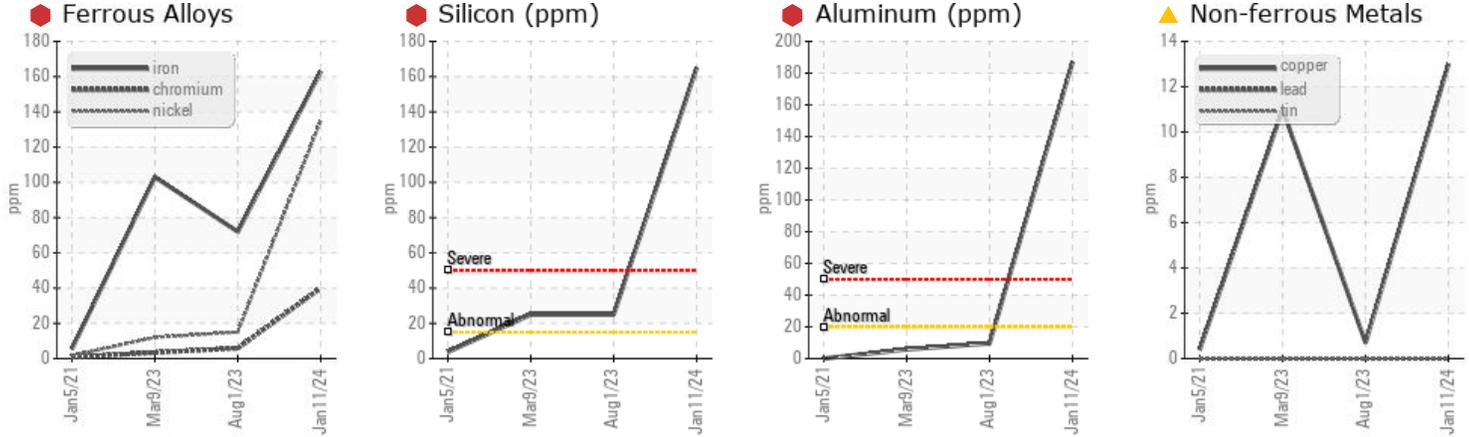


Machine Id
PRESS 1 (S/N 420-235)

Component
Soutwest Roller Bearing

Fluid
ROYAL PURPLE THERMYL-GLYDE 1500 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

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	ABNORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	163	72	103
Chromium	ppm	ASTM D5185m	>20	40	6	3
Nickel	ppm	ASTM D5185m	>20	135	15	12
Aluminum	ppm	ASTM D5185m	>20	187	10	6
Copper	ppm	ASTM D5185m	>20	13	<1	11
Silicon	ppm	ASTM D5185m	>15	165	25	25

Customer Id: WEYNEW
Sample No.: WC0432376
Lab Number: 06059347
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:
Jonathan Hester +1 919-379-4092 x4092
jhester@wearcheckusa.com

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.

HISTORICAL DIAGNOSIS

01 Aug 2023 Diag: Don Baldrige

DIRT



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



09 Mar 2023 Diag: Don Baldrige

DIRT



Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

view report



05 Jan 2021 Diag: Jonathan Hester

WATER



We advise that you check for the source of water entry. Resample at the next service interval to monitor. All component wear rates are normal. Free water present. There is a moderate concentration of water present in the oil. The AN level is acceptable for this fluid.

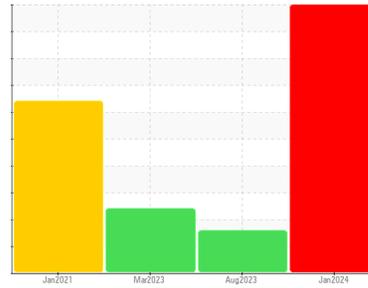
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
PRESS 1 (S/N 420-235)

Component
Soutwest Roller Bearing

Fluid
ROYAL PURPLE THERMYL-GLYDE 1500 (--- GAL)

DIAGNOSIS

Recommendation

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 chromium level is abnormal. The nickel level is severe. The aluminum level is severe. The copper level is abnormal.

Contamination

Elemental level of silicon (Si) above normal indicating ingress of seal material. 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		WC0432376	WC0432482	RP0008569
Sample Date	Client Info		11 Jan 2024	01 Aug 2023	09 Mar 2023
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	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	163	72	103
Chromium	ppm	ASTM D5185m >20	40	6	3
Nickel	ppm	ASTM D5185m >20	135	15	12
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	187	10	6
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >20	13	<1	11
Tin	ppm	ASTM D5185m >20	0	0	0
Antimony	ppm	ASTM D5185m	---	---	---
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	0	0
Barium	ppm	ASTM D5185m	84	0	17
Molybdenum	ppm	ASTM D5185m	4	<1	0
Manganese	ppm	ASTM D5185m	2	<1	2
Magnesium	ppm	ASTM D5185m	3	<1	<1
Calcium	ppm	ASTM D5185m	59	47	12
Phosphorus	ppm	ASTM D5185m	189	111	49
Zinc	ppm	ASTM D5185m	33	<1	8
Sulfur	ppm	ASTM D5185m	22626	27073	9256

CONTAMINANTS

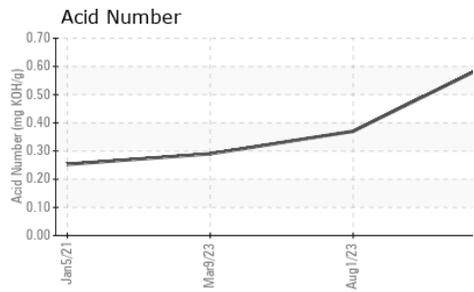
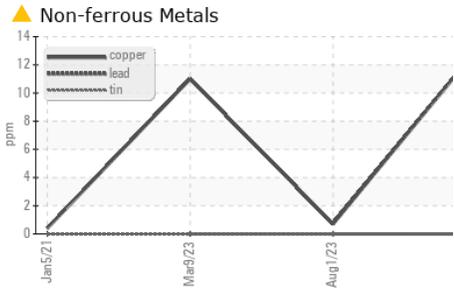
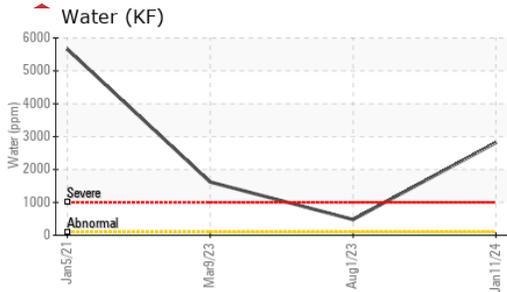
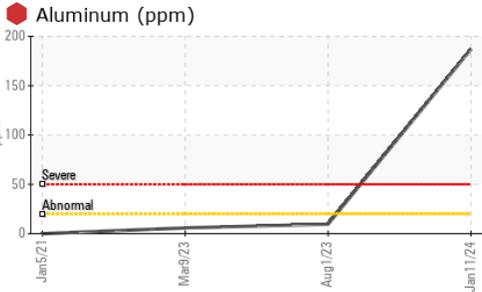
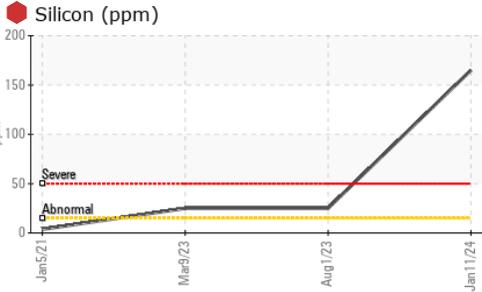
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	165	25	25
Sodium	ppm	ASTM D5185m	40	24	19
Potassium	ppm	ASTM D5185m >20	5	1	2
Water	%	ASTM D6304 >2	0.282	0.047	0.162
ppm Water	ppm	ASTM D6304	2820	477.9	1620

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	0.62	0.37	0.29



OIL ANALYSIS REPORT



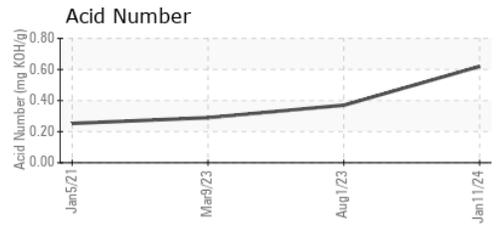
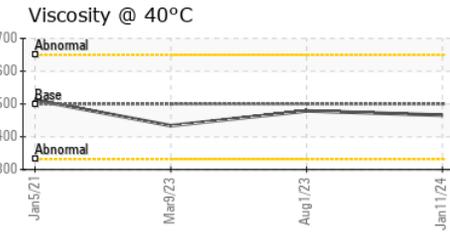
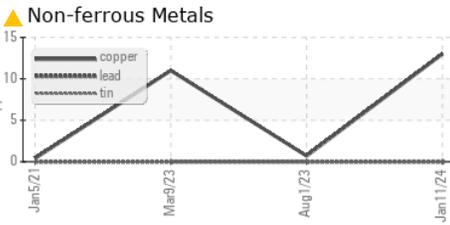
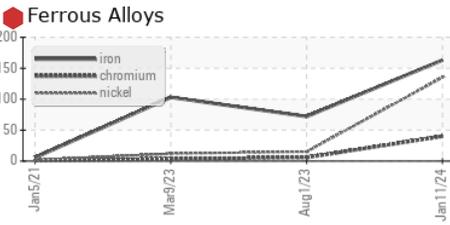
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	MODER
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance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

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	1500	1466	1479

SAMPLE IMAGES	method	limit/base	current	history1	history2
---------------	--------	------------	---------	----------	----------



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0432376 **Received** : 12 Jan 2024
Lab Number : 06059347 **Diagnosed** : 16 Jan 2024
Unique Number : 10830729 **Diagnostician** : Jonathan Hester
Test Package : IND 2 (Additional Tests: KF)

INTERNATIONAL PAPER
 1785 Weyerhaeuser Road
 VANCEBORO, NC
 US 28586
 Contact: DOUG WEIR
 Doug.Weir@paper.com;jon.fazenbaker@wearcheck.com
 T: (252)633-7350
 F: (252)633-7761

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)