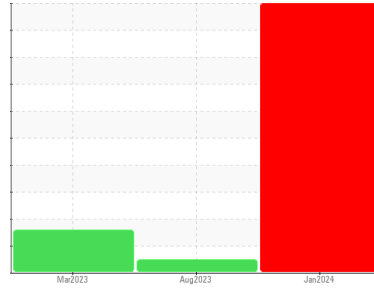




PROBLEM SUMMARY

Sample Rating Trend



WEAR

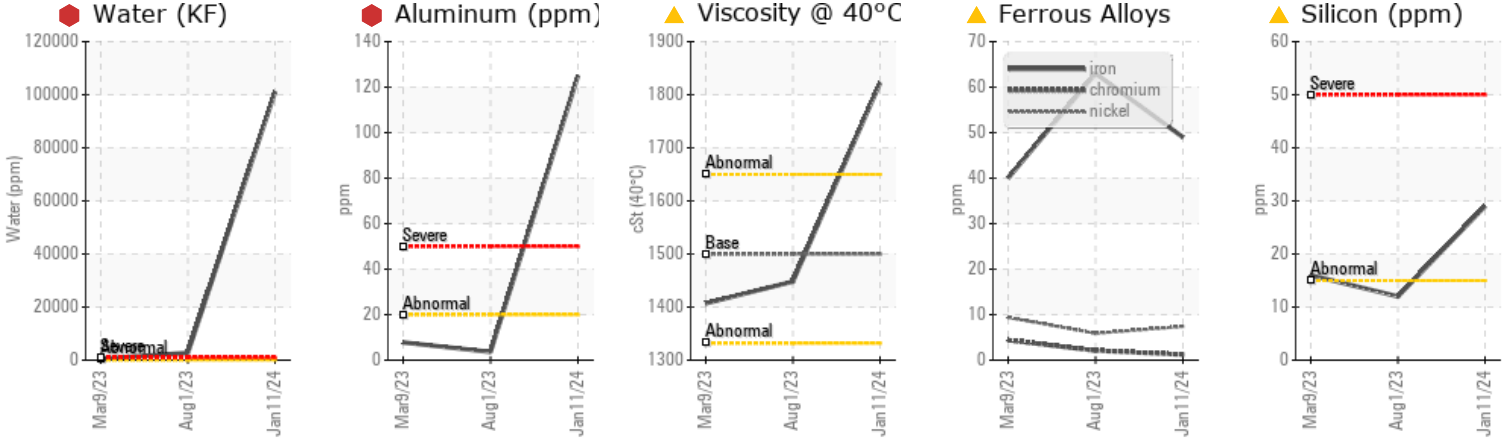


Machine Id
PRESS 2 (S/N 420-280)

Component
Northwest Roller Bearing

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

COMPONENT CONDITION SUMMARY



RECOMMENDATION

We advise that you check for the source of water entry. 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	NORMAL	ABNORMAL
Iron	ppm	ASTM D5185m	>20	▲ 49	63	40
Aluminum	ppm	ASTM D5185m	>20	● 125	4	8
Silicon	ppm	ASTM D5185m	>15	▲ 29	12	16
Water	%	ASTM D6304	>2	● 10.1	0.277	0.052
ppm Water	ppm	ASTM D6304		● 101000	2770	520
Emulsified Water	scalar	*Visual	>2	● 0.2%	0.2%	0.2%
Visc @ 40°C	cSt	ASTM D445	1500	▲ 1822	1448	1407

Customer Id: WEYNEW
Sample No.: WC0432489
Lab Number: 06059349
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.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

HISTORICAL DIAGNOSIS

01 Aug 2023 Diag: Don Baldrige

NORMAL



Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

view report



09 Mar 2023 Diag: Don Baldrige

WATER



We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component. Resample at the next service interval to monitor. All component wear rates are normal. Free water present. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

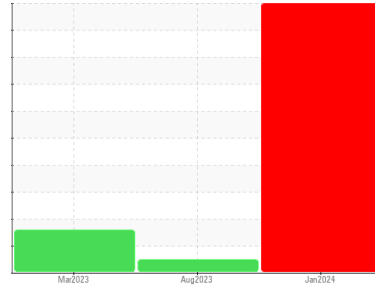
view report





OIL ANALYSIS REPORT

Sample Rating Trend



WEAR



Machine Id
PRESS 2 (S/N 420-280)

Component
Northwest Roller Bearing

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

DIAGNOSIS

Recommendation

We advise that you check for the source of water entry. 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 abnormal. The aluminum level is severe.

Contamination

There is a high concentration of water present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

Fluid Condition

The oil viscosity is higher than normal. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		WC0432489	WC0432460	RP0008567
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	NORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	▲ 49	63	40
Chromium	ppm	ASTM D5185m >20	1	2	4
Nickel	ppm	ASTM D5185m >20	7	6	9
Titanium	ppm	ASTM D5185m	0	0	0
Silver	ppm	ASTM D5185m	0	0	0
Aluminum	ppm	ASTM D5185m >20	● 125	4	8
Lead	ppm	ASTM D5185m >20	0	0	0
Copper	ppm	ASTM D5185m >20	0	<1	<1
Tin	ppm	ASTM D5185m >20	<1	0	0
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	5	0	0
Barium	ppm	ASTM D5185m	0	0	4
Molybdenum	ppm	ASTM D5185m	0	<1	0
Manganese	ppm	ASTM D5185m	<1	<1	<1
Magnesium	ppm	ASTM D5185m	2	<1	1
Calcium	ppm	ASTM D5185m	18	54	17
Phosphorus	ppm	ASTM D5185m	440	119	51
Zinc	ppm	ASTM D5185m	7	13	31
Sulfur	ppm	ASTM D5185m	16273	26126	8644

CONTAMINANTS

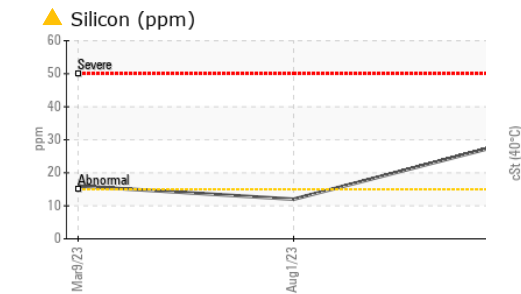
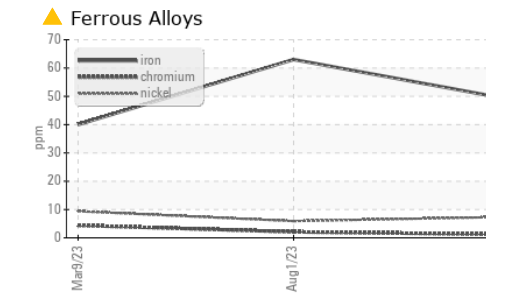
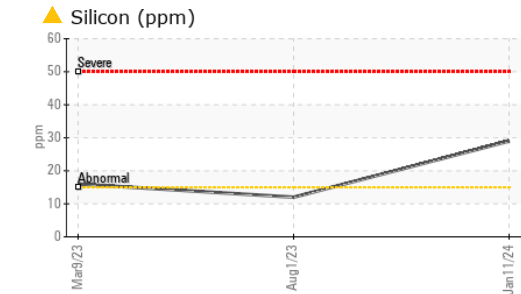
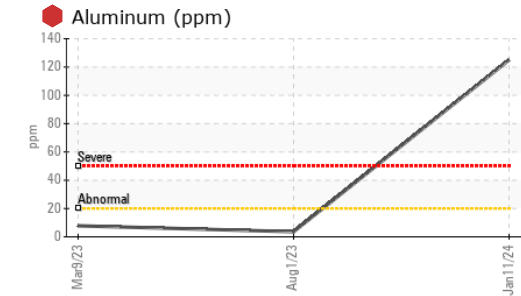
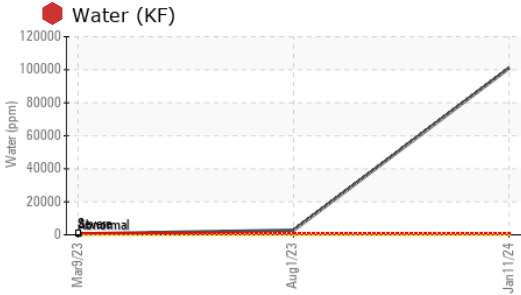
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	▲ 29	12	16
Sodium	ppm	ASTM D5185m	61	40	10
Potassium	ppm	ASTM D5185m >20	3	2	1
Water	%	ASTM D6304 >2	● 10.1	0.277	0.052
ppm Water	ppm	ASTM D6304	● 101000	2770	520

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.05	0.25	0.27



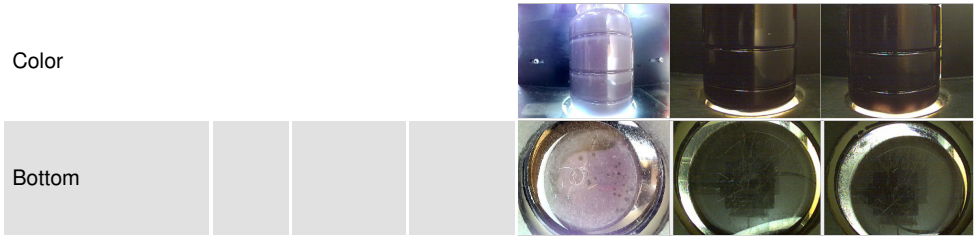
OIL ANALYSIS REPORT



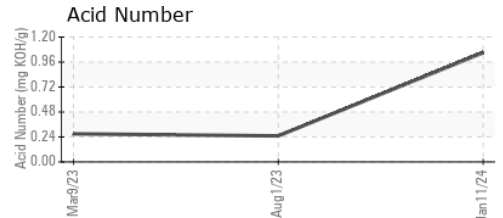
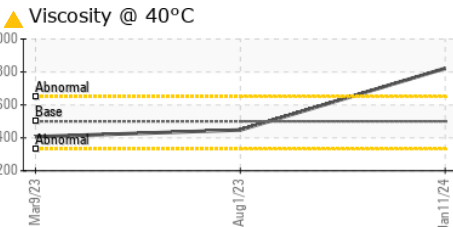
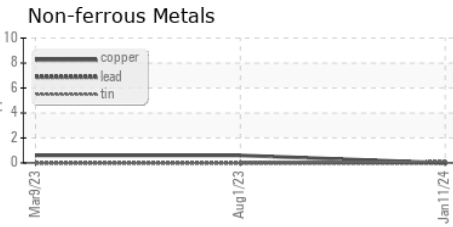
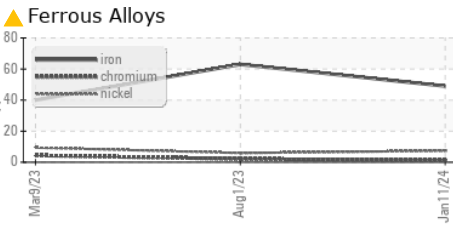
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	0.2%	0.2%
Free Water	scalar	*Visual		NEG	▲ 1.0

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	1500	▲ 1822	1448

SAMPLE IMAGES	method	limit/base	current	history1	history2
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GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
 Sample No. : WC0432489 Recieved : 12 Jan 2024
 Lab Number : 06059349 Diagnosed : 16 Jan 2024
 Unique Number : 10830731 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

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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