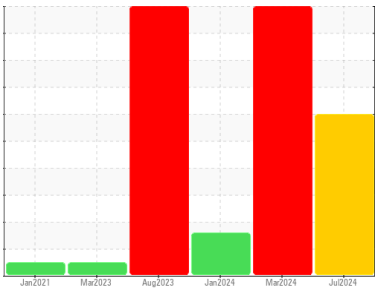
PROBLEM SUMMARY

Sample Rating Trend

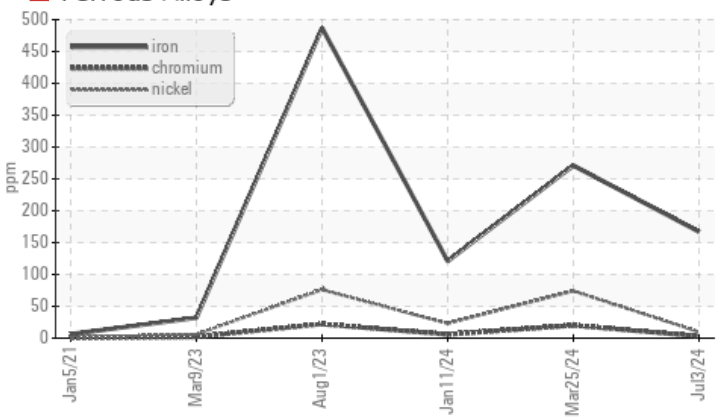


WEAR

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

COMPONENT CONDITION SUMMARY

▲ Ferrous Alloys



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**	SEVERE	ABNORMAL
Iron	ppm	ASTM D5185m	>20	▲ **167**	▲ 271	▲ 121

Customer Id: WEYNEW
Sample No.: WC0892347
Lab Number: 06236099
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.

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 nickel level is severe. The chromium 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

No corrective action is recommended at this time. We recommend an early resample to monitor this condition.The iron level is abnormal. The nickel level is abnormal. The water content is negligible. 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

WEAR

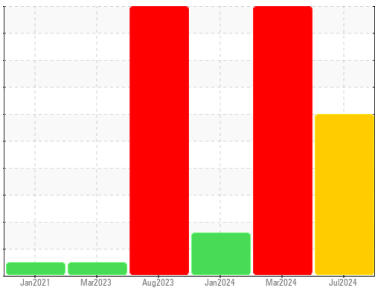
01 Aug 2023 Diag: Don Baldridge

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. Bearing and/or bushing wear is indicated. Appearance is hazy. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. 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
Northeast 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 has decreased, but is still severe. Gear wear is indicated. All other component wear rates are normal.

Contamination
The water content is negligible. There is no indication of any contamination in the oil.

Fluid Condition
The AN level is acceptable for this fluid.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**WC0892347**	WC0432398	WC0432491
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	ABNORMAL

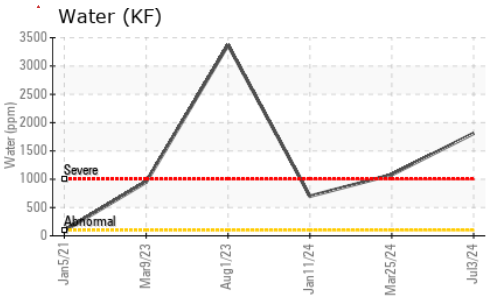
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	▲ **167**	▲ 271	▲ 121
Chromium	ppm	ASTM D5185m	>20	**3**	▲ 20	6
Nickel	ppm	ASTM D5185m	>20	**10**	▲ 74	▲ 23
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>20	**10**	6	<1
Lead	ppm	ASTM D5185m	>20	**0**	0	0
Copper	ppm	ASTM D5185m	>20	**2**	17	11
Tin	ppm	ASTM D5185m	>20	**0**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

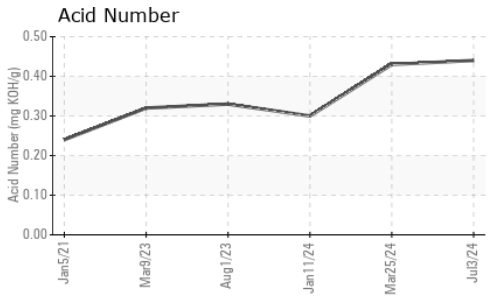
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	<1	0
Barium	ppm	ASTM D5185m		**8**	104	81
Molybdenum	ppm	ASTM D5185m		**0**	1	0
Manganese	ppm	ASTM D5185m		**3**	5	2
Magnesium	ppm	ASTM D5185m		**0**	5	0
Calcium	ppm	ASTM D5185m		**0**	71	50
Phosphorus	ppm	ASTM D5185m		**442**	249	131
Zinc	ppm	ASTM D5185m		**0**	39	24
Sulfur	ppm	ASTM D5185m		**18690**	34269	23341

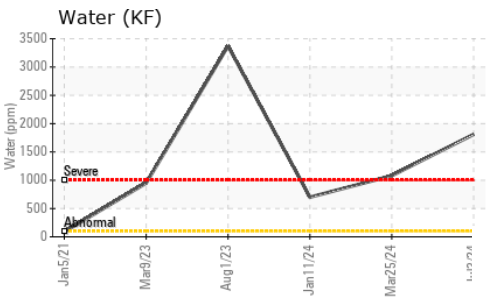
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	**16**	▲ 21	9
Sodium	ppm	ASTM D5185m		**73**	30	16
Potassium	ppm	ASTM D5185m	>20	**6**	8	2
Water	%	ASTM D6304	>2	**0.181**	0.108	0.070
ppm Water	ppm	ASTM D6304		**1810**	1080	700

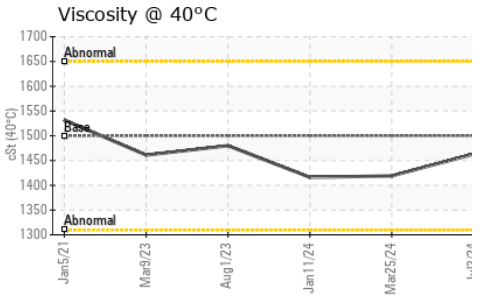
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**0.44**	0.43	0.30

OIL ANALYSIS REPORT







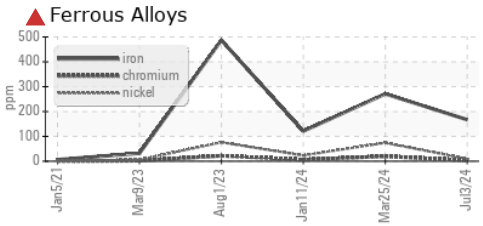


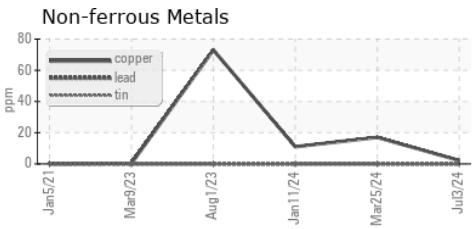
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Debris	scalar	*Visual	NONE	**NONE**	NONE	NONE
Sand/Dirt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

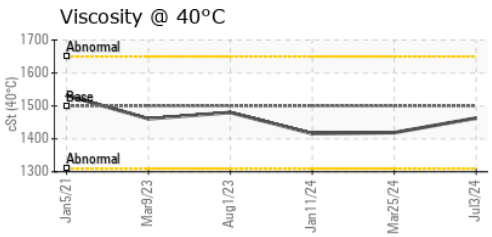
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	1500	**1463**	1419	1416

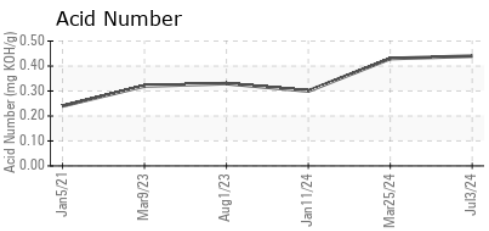
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

GRAPHS









Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0892347 **Received** : 15 Jul 2024
Lab Number : 06236099 **Tested** : 16 Jul 2024
Unique Number : 11124933 **Diagnosed** : 17 Jul 2024 - Don Baldridge
Test Package : IND 2 (Additional Tests: KF)

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)

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