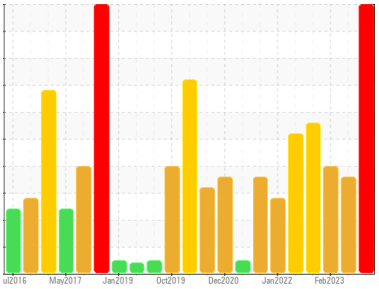
PROBLEM SUMMARY

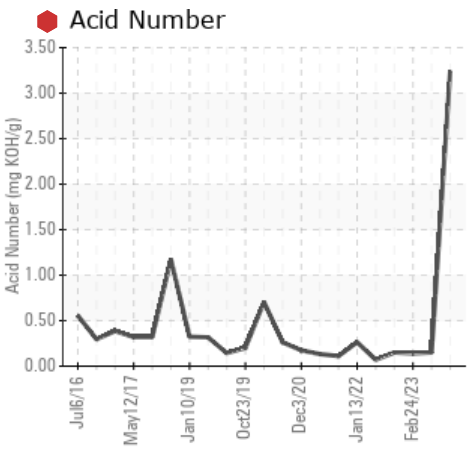
Sample Rating Trend

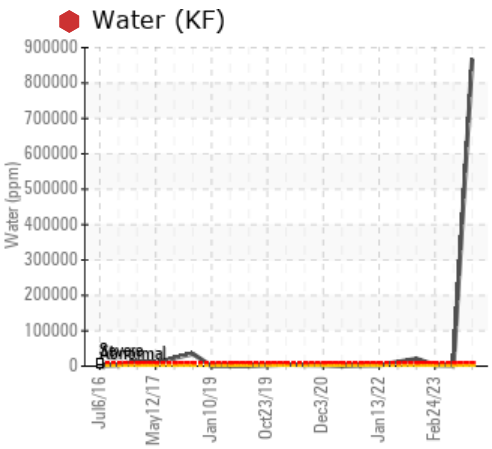


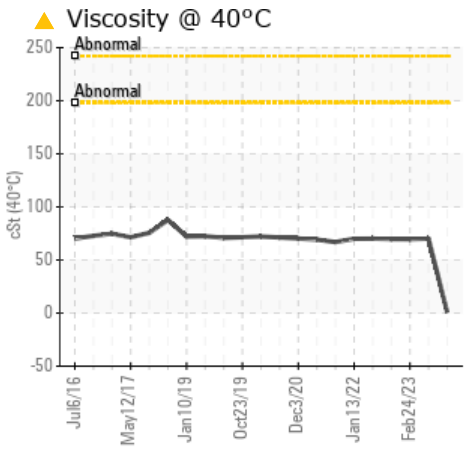
WATER

Area
RGS 10
Machine Id
RGS 10 - 1 X AXIS ROLL GRINDER (S/N 16-2505-0121)
Component
Gearbox
Fluid
{not provided} (--- QTS)

COMPONENT CONDITION SUMMARY







RECOMMENDATION

We advise an early resample to confirm this situation.

PROBLEMATIC TEST RESULTS

Sample Status				SEVERE	ABNORMAL	ABNORMAL
Water	%	ASTM D6304	>0.2	**86.7**	0.221	0.310
ppm Water	ppm	ASTM D6304	>2000	**867000**	2210	3100
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.239**	0.15	0.14
Emulsified Water	scalar	*Visual	>0.2	**0.2%**	0.2%	0.2%
Free Water	scalar	*Visual		**2.0**	1.0	1.0
Visc @ 40°C	cSt	ASTM D445		**0.87**	70.1	69.6

Customer Id: OUTCALAL
Sample No.: RP0037971
Lab Number: 06054474
Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:
Doug Bogart +1 (800)237-1369 x4016
dougb@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
Resample	---	---	?	We advise an early resample to confirm this situation.

HISTORICAL DIAGNOSIS

11 Jul 2023 Diag: Doug Bogart

WATER

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. Moderate concentration of visible dirt/debris present in the oil. There is a light concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report

24 Feb 2023 Diag: Jonathan Hester

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. We recommend an early resample to monitor this condition.All component wear rates are normal. Appearance is hazy. Free water present. There is a light concentration of water present in the oil. The AN level is acceptable for this fluid.

view report

24 Oct 2022 Diag: Don Baldridge

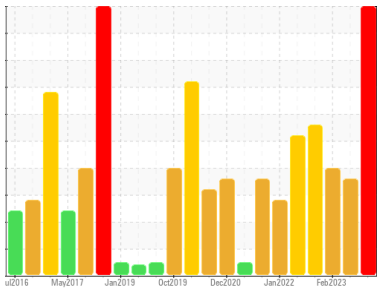
WATER

We advise that you check for the source of water entry. We advise that you follow the water drain-off procedure for this component.All component wear rates are normal. There is a high concentration of water present in the oil. Free water present. The AN level is acceptable for this fluid.

view report

OIL ANALYSIS REPORT

Sample Rating Trend



WATER

Area
RGS 10
Machine Id
RGS 10 - 1 X AXIS ROLL GRINDER (S/N 16-2505-0121)
Component
Gearbox
Fluid
{not provided} (--- QTS)

DIAGNOSIS

Recommendation
We advise an early resample to confirm this situation.

Wear
All component wear rates are normal.

Contamination
Sample consists almost entirely of water.

Fluid Condition
The AN level is above the recommended limit. The oil viscosity is lower than normal.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number		Client Info		**RP0037971**	RP0034963	RP0031343
Sample Date		Client Info		**05 Jan 2024**	11 Jul 2023	24 Feb 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

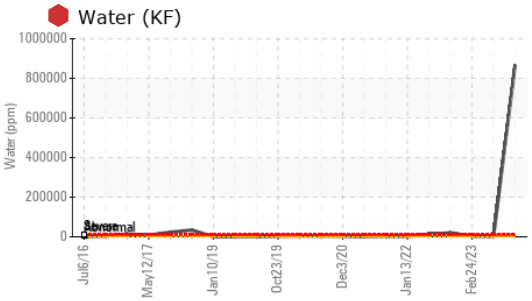
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184		**82**	52	12
Iron	ppm	ASTM D5185m	>200	**0**	3	2
Chromium	ppm	ASTM D5185m	>15	**0**	0	0
Nickel	ppm	ASTM D5185m	>15	**0**	0	0
Titanium	ppm	ASTM D5185m		**0**	0	0
Silver	ppm	ASTM D5185m		**0**	0	0
Aluminum	ppm	ASTM D5185m	>25	**0**	<1	0
Lead	ppm	ASTM D5185m	>100	**<1**	0	<1
Copper	ppm	ASTM D5185m	>200	**0**	<1	<1
Tin	ppm	ASTM D5185m	>25	**<1**	0	0
Vanadium	ppm	ASTM D5185m		**0**	0	0
Cadmium	ppm	ASTM D5185m		**0**	0	0

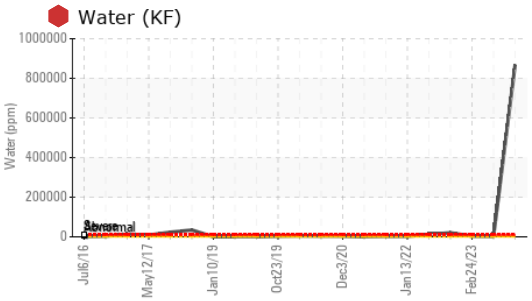
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		**0**	0	0
Barium	ppm	ASTM D5185m		**0**	0	0
Molybdenum	ppm	ASTM D5185m		**0**	7	2
Manganese	ppm	ASTM D5185m		**<1**	0	0
Magnesium	ppm	ASTM D5185m		**<1**	0	0
Calcium	ppm	ASTM D5185m		**1**	<1	0
Phosphorus	ppm	ASTM D5185m		**4**	38	37
Zinc	ppm	ASTM D5185m		**0**	3	0

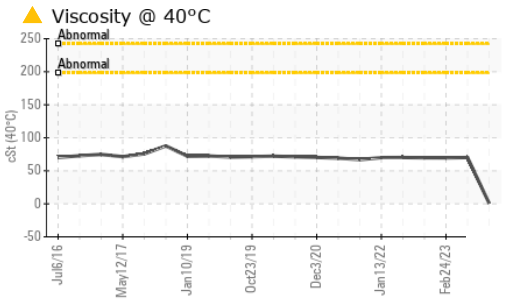
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>50	**0**	2	<1
Sodium	ppm	ASTM D5185m		**<1**	0	0
Potassium	ppm	ASTM D5185m	>20	**0**	<1	0
Water	%	ASTM D6304	>0.2	**86.7**	▲ 0.221	▲ 0.310
ppm Water	ppm	ASTM D6304	>2000	**867000**	▲ 2210	▲ 3100

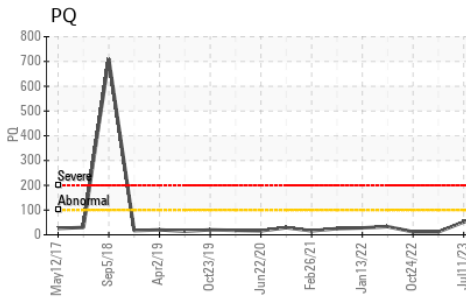
FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		**3.239**	0.15	0.14

OIL ANALYSIS REPORT



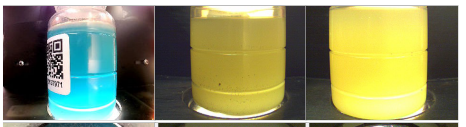
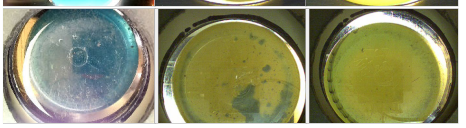




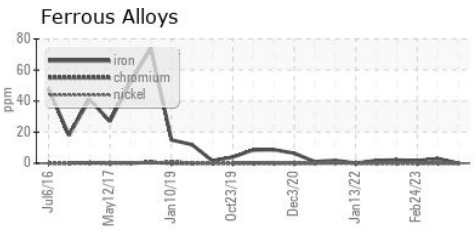


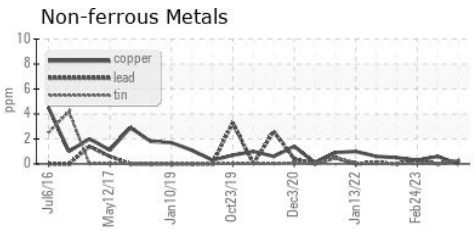
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	**NONE**	NONE	NONE
Precipitate	scalar	*Visual	NONE	**NONE**	NONE	NONE
Silt	scalar	*Visual	NONE	**NONE**	NONE	LIGHT
Debris	scalar	*Visual	NONE	**NONE**	▲ MODER	NONE
Sand/Dirt	scalar	*Visual	NONE	**NONE**	NONE	NONE
Appearance	scalar	*Visual	NORML	**NORML**	NORML	▲ HAZY
Odor	scalar	*Visual	NORML	**NORML**	NORML	NORML
Emulsified Water	scalar	*Visual	>0.2	⬢ **0.2%**	0.2%	0.2%
Free Water	scalar	*Visual		⬢ **2.0**	▲ 1.0	▲ 1.0

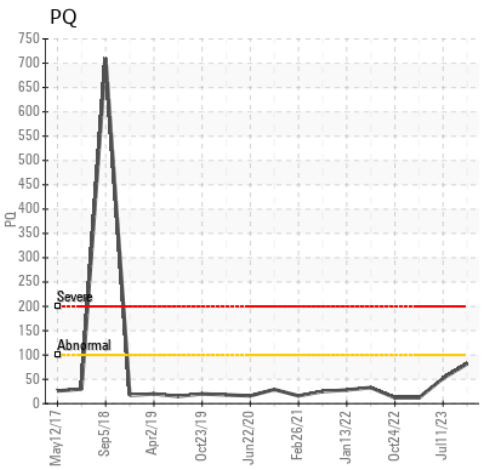
FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445		▲ **0.87**	70.1	69.6

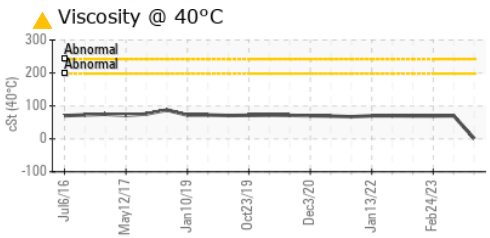
SAMPLE IMAGES	method	limit/base	current	history1	history2
Color					
Bottom					

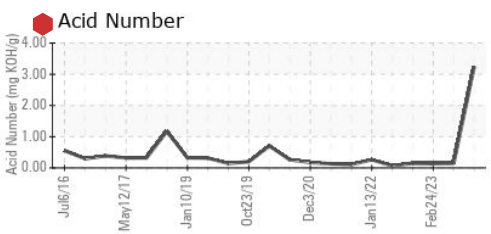
GRAPHS











Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0037971 **Recieved** : 08 Jan 2024
Lab Number : 06054474 **Diagnosed** : 29 Jan 2024
Unique Number : 10820423 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: PQ)

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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