



PERFORMANCE
UNDER
PRESSURE

OIL ANALYSIS REPORT

WEAR	NORMAL
CONTAMINATION	SEVERE
FLUID CONDITION	SEVERE

Area
RGS 10
Machine Id
RGS 10 - 1 X AXIS ROLL GRINDER (S/N 16-2505-0121)

Component
Gearbox
Fluid
{not provided} (--- QTS)

RECOMMENDATION

We advise an early resample to confirm this situation.

Test	UOM	Method	Limit/Abn	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
Filter Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Filter Changed		Client Info		N/A	N/A	N/A
Sample Status				SEVERE	ABNORMAL	ABNORMAL

WEAR

All component wear rates are normal.

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
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE

CONTAMINATION

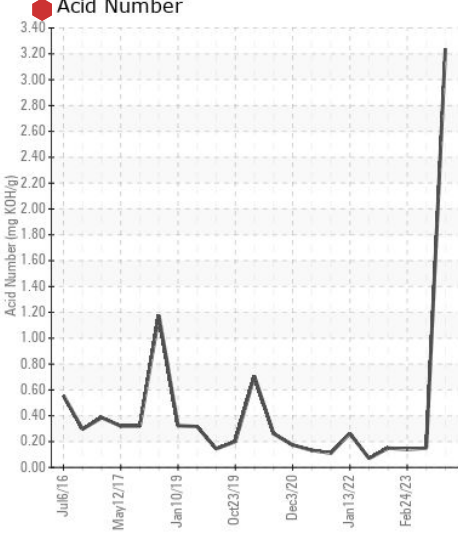
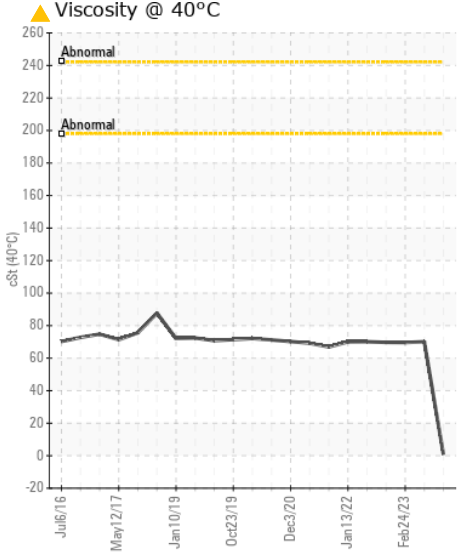
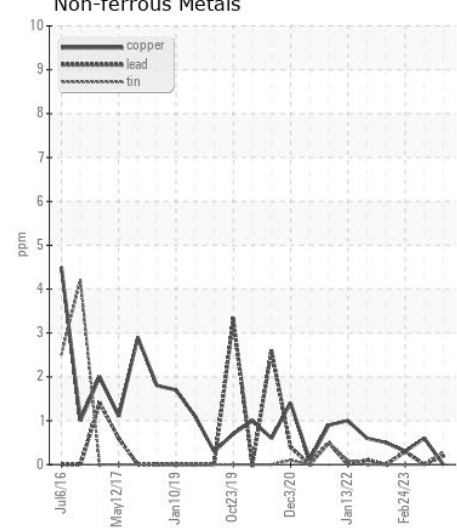
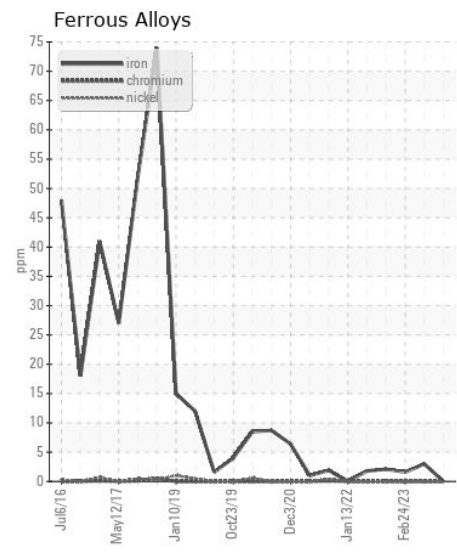
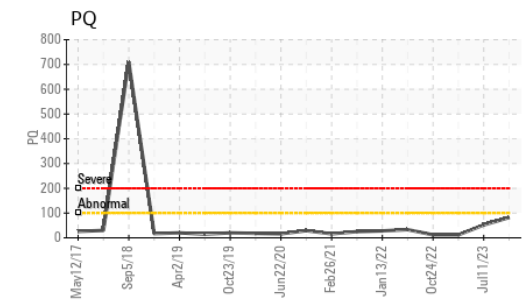
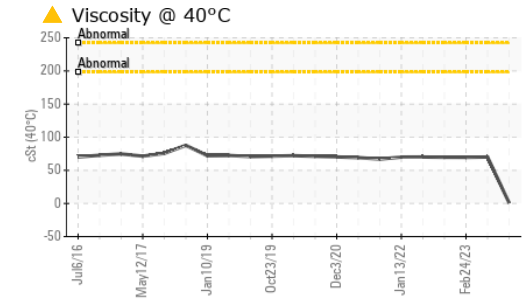
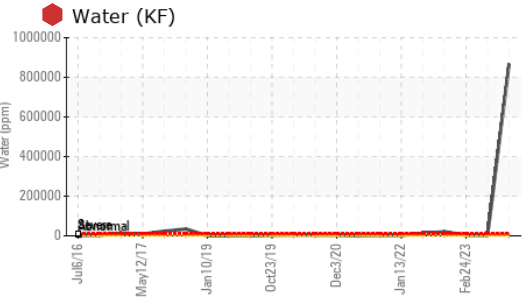
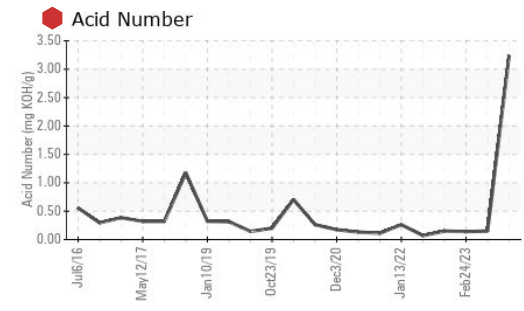
Sample consists almost entirely of water.

Silicon	ppm	ASTM D5185m	>50	0	2	<1
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
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%

FLUID CONDITION

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

Sodium	ppm	ASTM D5185m		<1	0	0
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
Acid Number (AN)	mg KOH/g	ASTM D8045		3.239	0.15	0.14
Visc @ 40°C	cSt	ASTM D445		0.87	70.1	69.6



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0037971 **Received** : 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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