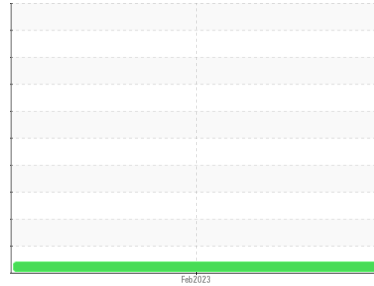


PROBLEM SUMMARY

Sample Rating Trend



VISCOSITY



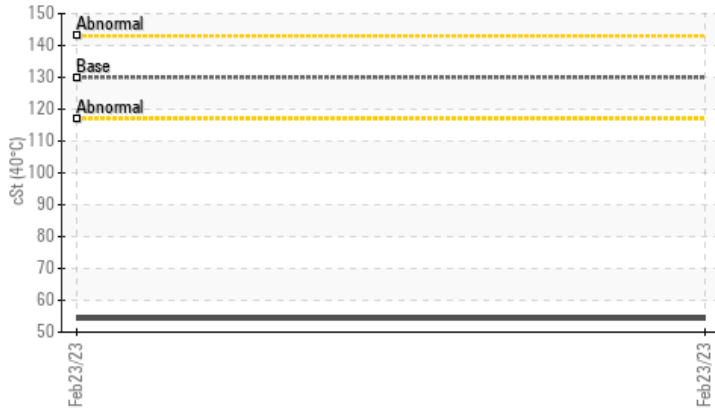
Machine Id
A-4000B

Component
Gearbox

Fluid
ROYAL PURPLE MAXGEAR 75W90 (2 GAL)

COMPONENT CONDITION SUMMARY

▲ Viscosity @ 40°C



RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS

Sample Status				ATTENTION	---	---
Visc @ 40°C	cSt	ASTM D445	130	▲ 54.3	---	---

Customer Id: PERMARRP
Sample No.: RP0020224
Lab Number: 05789173
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

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

OIL ANALYSIS REPORT

Sample Rating Trend



VISCOSITY



Machine Id
A-4000B

Component
Gearbox

Fluid
ROYAL PURPLE MAXGEAR 75W90 (2 GAL)

DIAGNOSIS

▲ Recommendation

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

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

▲ Fluid Condition

The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	RP0020224	---	---
Sample Date	Client Info	23 Feb 2023	---	---
Machine Age	mths Client Info	18	---	---
Oil Age	mths Client Info	12	---	---
Oil Changed	Client Info	Changed	---	---
Sample Status		ATTENTION	---	---

WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >200	3	---	---
Chromium ppm	ASTM D5185m >10	0	---	---
Nickel ppm	ASTM D5185m >10	0	---	---
Titanium ppm	ASTM D5185m	0	---	---
Silver ppm	ASTM D5185m	0	---	---
Aluminum ppm	ASTM D5185m >25	<1	---	---
Lead ppm	ASTM D5185m >50	0	---	---
Copper ppm	ASTM D5185m >200	0	---	---
Tin ppm	ASTM D5185m >10	0	---	---
Vanadium ppm	ASTM D5185m	0	---	---
Cadmium ppm	ASTM D5185m	0	---	---

ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m 265	0	---	---
Barium ppm	ASTM D5185m	0	---	---
Molybdenum ppm	ASTM D5185m 135	0	---	---
Manganese ppm	ASTM D5185m	<1	---	---
Magnesium ppm	ASTM D5185m	63	---	---
Calcium ppm	ASTM D5185m 30	22	---	---
Phosphorus ppm	ASTM D5185m 2450	80	---	---
Zinc ppm	ASTM D5185m	25	---	---

CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >50	3	---	---
Sodium ppm	ASTM D5185m	3	---	---
Potassium ppm	ASTM D5185m >20	<1	---	---
Water %	ASTM D6304 >0.2	0.022	---	---
ppm Water ppm	ASTM D6304 >2000	220.8	---	---

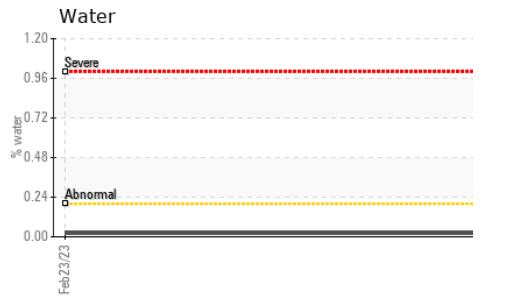
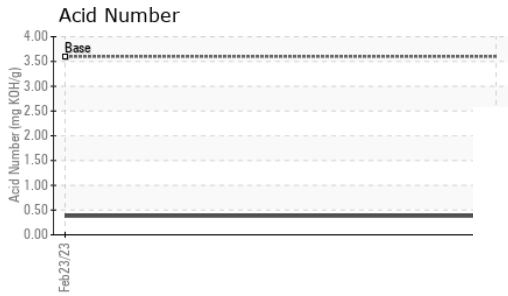
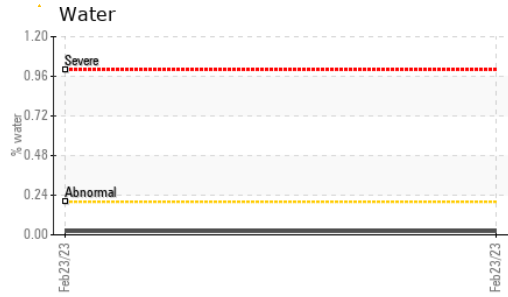
FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 3.6	0.38	---	---

VISUAL

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

OIL ANALYSIS REPORT

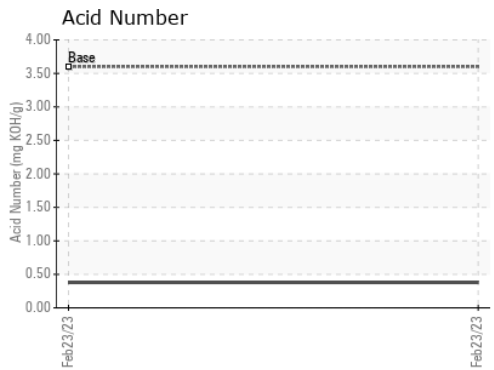
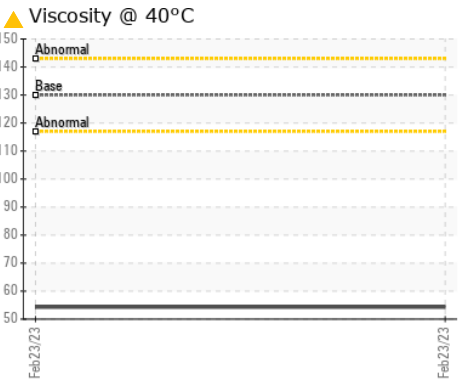
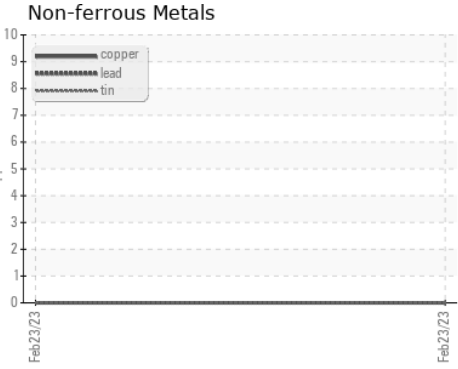
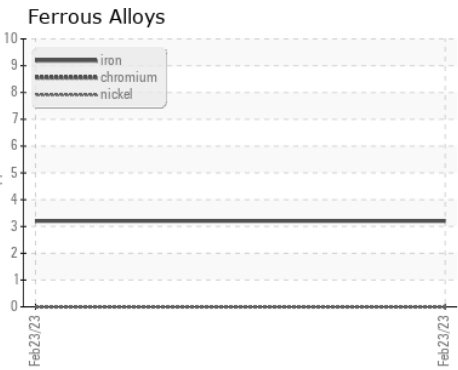


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	130 ▲ 54.3	---	---

SAMPLE IMAGES	method	limit/base	current	history1	history2
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Color				no image	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : RP0020224 **Received** : 10 Mar 2023
Lab Number : 05789173 **Diagnosed** : 13 Mar 2023
Unique Number : 10373844 **Diagnostician** : Doug Bogart
Test Package : IND 2

PERGAN
 710 BUSSEY RD
 MARSHALL, TX
 US 75670
 Contact: James Holliday
 j.holliday@pergan-na.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)

T:
F: