



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**AERATION II**

Component  
**Left Gearbox**

Fluid  
**ROYAL PURPLE SYNFILM GT 100 (--- QTS)**



## DIAGNOSIS

### Recommendation

Resample at the next service interval to monitor.  
NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>RP0039432</b>	---	---
Sample Date	Client Info	<b>28 Mar 2024</b>	---	---
Machine Age	hrs Client Info	<b>0</b>	---	---
Oil Age	hrs Client Info	<b>0</b>	---	---
Oil Changed	Client Info	<b>Not Chngd</b>	---	---
Sample Status		<b>NORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2
Iron ppm	ASTM D5185m >200	<b>0</b>	---	---
Chromium ppm	ASTM D5185m >15	<b>0</b>	---	---
Nickel ppm	ASTM D5185m >15	<b>0</b>	---	---
Titanium ppm	ASTM D5185m	<b>0</b>	---	---
Silver ppm	ASTM D5185m	<b>0</b>	---	---
Aluminum ppm	ASTM D5185m >25	<b>0</b>	---	---
Lead ppm	ASTM D5185m >100	<b>0</b>	---	---
Copper ppm	ASTM D5185m >200	<b>&lt;1</b>	---	---
Tin ppm	ASTM D5185m >25	<b>0</b>	---	---
Vanadium ppm	ASTM D5185m	<b>0</b>	---	---
Cadmium ppm	ASTM D5185m	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2
Boron ppm	ASTM D5185m	<b>0</b>	---	---
Barium ppm	ASTM D5185m	<b>0</b>	---	---
Molybdenum ppm	ASTM D5185m	<b>0</b>	---	---
Manganese ppm	ASTM D5185m	<b>0</b>	---	---
Magnesium ppm	ASTM D5185m 90	<b>14</b>	---	---
Calcium ppm	ASTM D5185m	<b>0</b>	---	---
Phosphorus ppm	ASTM D5185m 35	<b>1</b>	---	---
Zinc ppm	ASTM D5185m	<b>0</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon ppm	ASTM D5185m >50	<b>&lt;1</b>	---	---
Sodium ppm	ASTM D5185m	<b>1</b>	---	---
Potassium ppm	ASTM D5185m >20	<b>0</b>	---	---
Water %	ASTM D6304 >0.2	<b>0.004</b>	---	---
ppm Water ppm	ASTM D6304 >2000	<b>42</b>	---	---

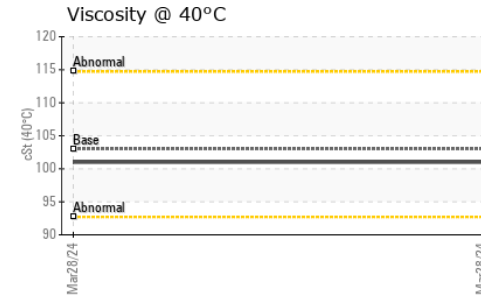
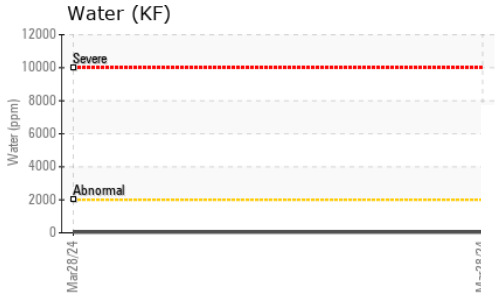
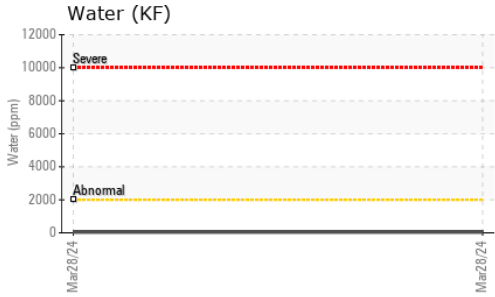
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN) mg KOH/g	ASTM D8045 0.388	<b>0.36</b>	---	---

## VISUAL



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

# OIL ANALYSIS REPORT

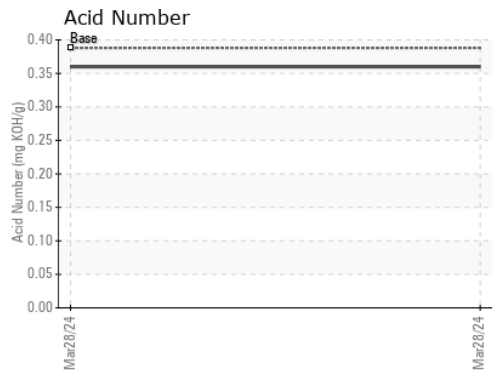
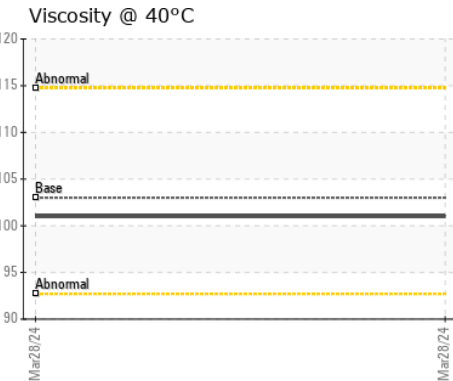
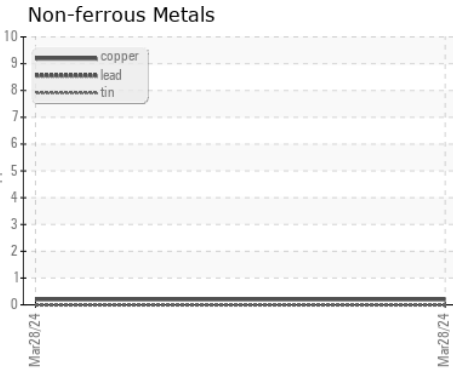
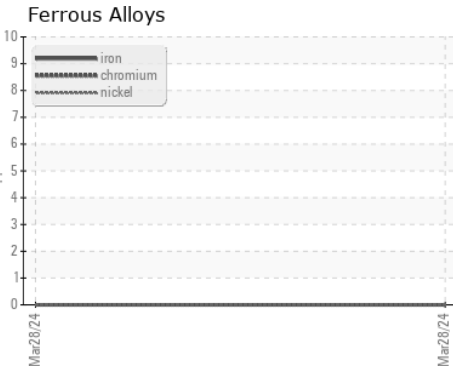


FLUID PROPERTIES	method	limit/base	current	history1	history2	
Visc @ 40°C	cSt	ASTM D445	103	101	---	---

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.** : RP0039432  
**Lab Number** : 06132115  
**Unique Number** : 10951580  
**Test Package** : IND 2  
**Received** : 28 Mar 2024  
**Tested** : 29 Mar 2024  
**Diagnosed** : 29 Mar 2024 - Wes Davis

**VEOLIA SMITHFIELD**  
 P.O. BOX 17249  
 SMITHFIELD, RI  
 US 02917  
 Contact: KAREN GOFFE  
 karen.goffe@veolia.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: (401)231-7089