



# OIL ANALYSIS REPORT

Sample Rating Trend

**NORMAL**



Machine Id  
**TFM-2**

Component  
**Gearbox**

Fluid  
**ROYAL PURPLE SYNFILM GT220 (--- GAL)**

## 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>RP0030073</b>	---	---
Sample Date	Client Info	<b>05 Jun 2023</b>	---	---
Machine Age	mths Client Info	<b>0</b>	---	---
Oil Age	mths Client Info	<b>6</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>7</b>	---	---
Chromium	ppm ASTM D5185m >15	<b>0</b>	---	---
Nickel	ppm ASTM D5185m >15	<b>&lt;1</b>	---	---
Titanium	ppm ASTM D5185m	<b>&lt;1</b>	---	---
Silver	ppm ASTM D5185m	<b>0</b>	---	---
Aluminum	ppm ASTM D5185m >25	<b>&lt;1</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>3</b>	---	---
Molybdenum	ppm ASTM D5185m	<b>0</b>	---	---
Manganese	ppm ASTM D5185m	<b>0</b>	---	---
Magnesium	ppm ASTM D5185m 90	<b>88</b>	---	---
Calcium	ppm ASTM D5185m	<b>9</b>	---	---
Phosphorus	ppm ASTM D5185m	<b>2</b>	---	---
Zinc	ppm ASTM D5185m	<b>13</b>	---	---

## CONTAMINANTS

method	limit/base	current	history1	history2
Silicon	ppm ASTM D5185m >50	<b>4</b>	---	---
Sodium	ppm ASTM D5185m	<b>0</b>	---	---
Potassium	ppm ASTM D5185m >20	<b>&lt;1</b>	---	---
Water	% ASTM D6304 >0.2	<b>0.007</b>	---	---
ppm Water	ppm ASTM D6304 >2000	<b>73.9</b>	---	---

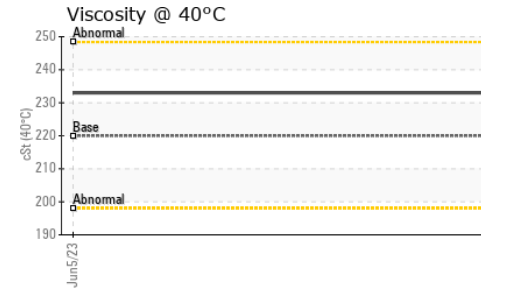
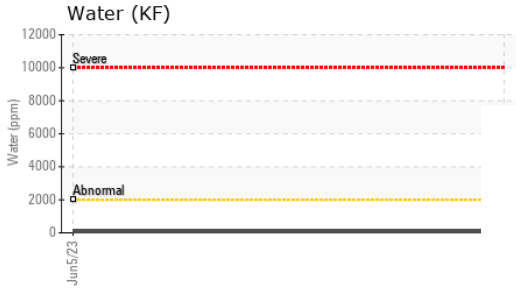
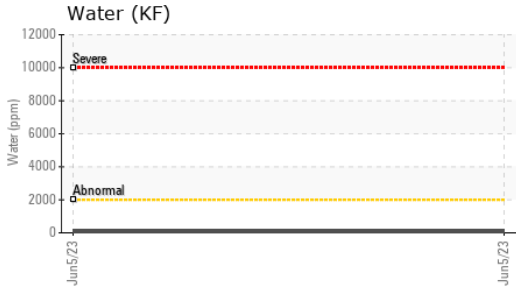
## FLUID DEGRADATION

method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g ASTM D8045 0.25	<b>0.43</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>LIGHT</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>	---	---

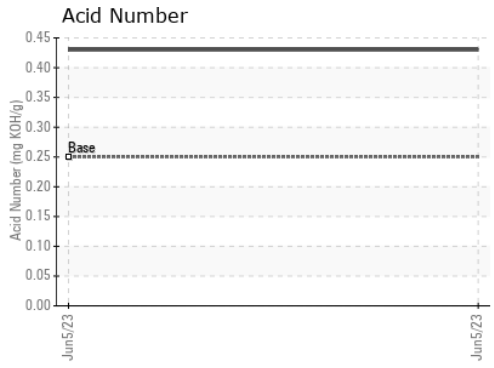
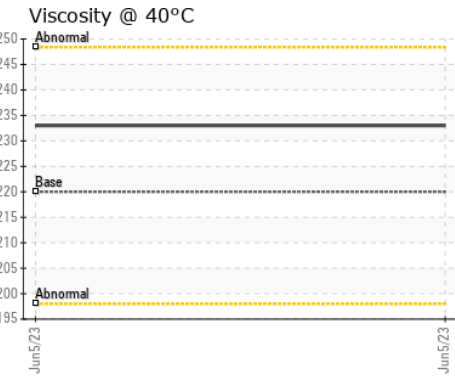
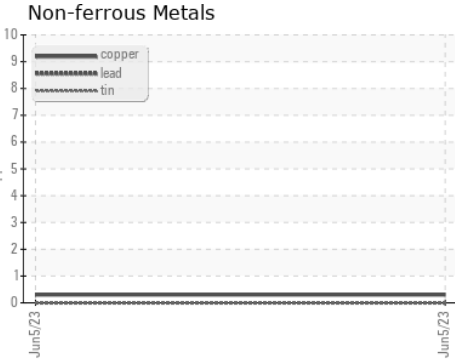
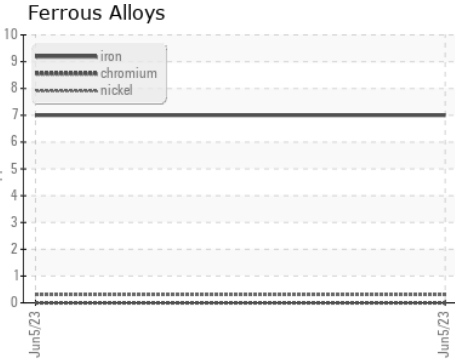
# OIL ANALYSIS REPORT



FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	220	<b>233</b>	---	---

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

## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0030073 **Received** : 14 Jun 2023  
**Lab Number** : **05873911** **Diagnosed** : 15 Jun 2023  
**Unique Number** : 10519014 **Diagnostician** : Wes Davis  
**Test Package** : IND 2

**VEOLIA SMITHFIELD**  
P.O. BOX 17249  
SMITHFIELD, RI  
US 02917  
Contact: KEVIN REGAN  
kevin.regan@veolia.com  
T: (401)231-1506  
F: (401)231-7089

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)