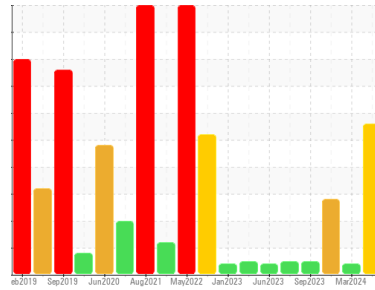


# PROBLEM SUMMARY

Sample Rating Trend



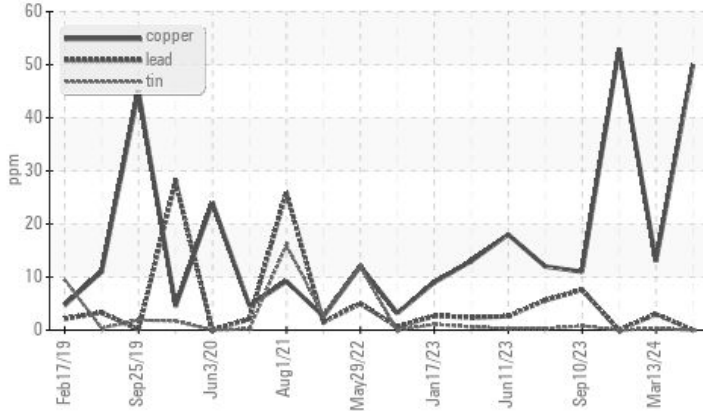
**WATER**



Machine Id  
**BFP-1B**  
Component  
**Outboard Bearing**  
Fluid  
**ROYAL PURPLE SYNFILM GT 68 (--- GAL)**

## COMPONENT CONDITION SUMMARY

### ▲ Non-ferrous Metals



## RECOMMENDATION

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.

## PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	ATTENTION	ABNORMAL
Copper	ppm ASTM D5185m >20	▲ 50	13	▲ 53
Free Water	scalar *Visual	▲ 5.0	NEG	▲ 1.0

Customer Id: ENGBOS  
Sample No.: RP0043284  
Lab Number: 06200274  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Don Baldrige +1  
[don.b505@comcast.net](mailto:don.b505@comcast.net)

To change component or sample information:  
Customer Service +1 1-800-237-1369  
[customerservice@wearcheck.com](mailto:customerservice@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Water Drain-off	---	---	?	We advise that you follow the water drain-off procedure for this component.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Check Water Access	---	---	?	We advise that you check for the source of water entry.

## HISTORICAL DIAGNOSIS

### VISCOSITY



#### 13 Mar 2024 Diag: Jonathan Hester

No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

[view report](#)



### WATER



#### 10 Dec 2023 Diag: Don Baldrige

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 you service the filters on this component if applicable. We recommend an early resample to monitor this condition. The copper level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. Free water present. The AN level is acceptable for this fluid.

[view report](#)



### NORMAL



#### 10 Sep 2023 Diag: Don Baldrige

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

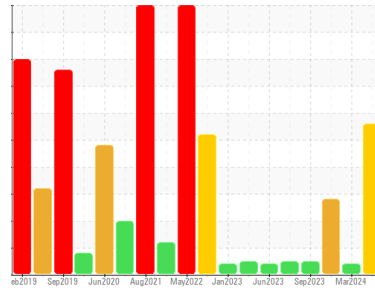
[view report](#)





# OIL ANALYSIS REPORT

Sample Rating Trend



WATER



Machine Id

**BFP-1B**

Component

**Outboard Bearing**

Fluid

**ROYAL PURPLE SYNFILM GT 68 (--- GAL)**

## DIAGNOSIS

### Recommendation

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.

### Wear

The copper level is abnormal. All other component wear rates are normal.

### Contamination

Excessive free water present.

### Fluid Condition

The AN level is acceptable for this fluid.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>RP0043284</b>	RP0039479	RP0038791
Sample Date	Client Info		<b>04 Jun 2024</b>	13 Mar 2024	10 Dec 2023
Machine Age	hrs	Client Info	<b>0</b>	0	0
Oil Age	hrs	Client Info	<b>0</b>	0	0
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>SEVERE</b>	ATTENTION	ABNORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m >20	<b>4</b>	<1	4
Chromium	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Nickel	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Titanium	ppm	ASTM D5185m	<b>0</b>	<1	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	2	<1
Lead	ppm	ASTM D5185m >20	<b>0</b>	3	0
Copper	ppm	ASTM D5185m >20	<b>▲ 50</b>	13	<b>▲ 53</b>
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	<1	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	<1	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	0
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	<1	0
Manganese	ppm	ASTM D5185m	<b>0</b>	0	0
Magnesium	ppm	ASTM D5185m 90	<b>3</b>	2	4
Calcium	ppm	ASTM D5185m	<b>0</b>	0	<1
Phosphorus	ppm	ASTM D5185m	<b>1</b>	9	4
Zinc	ppm	ASTM D5185m	<b>7</b>	0	0

## CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>&lt;1</b>	<1	<1
Sodium	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	1
Water	%	ASTM D6304 >2	<b>0.112</b>	0.144	0.075
ppm Water	ppm	ASTM D6304	<b>1120</b>	1440	750

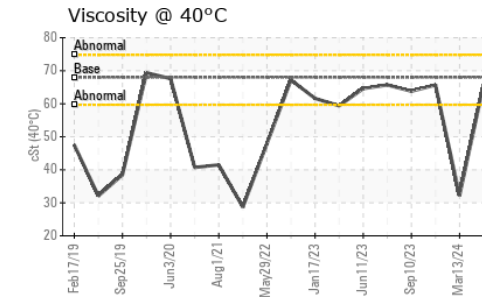
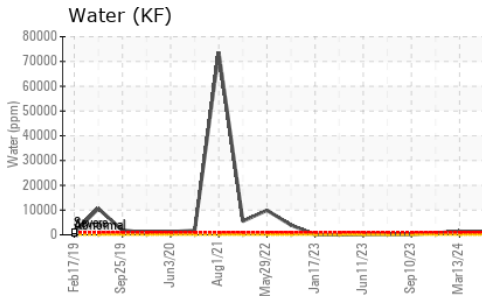
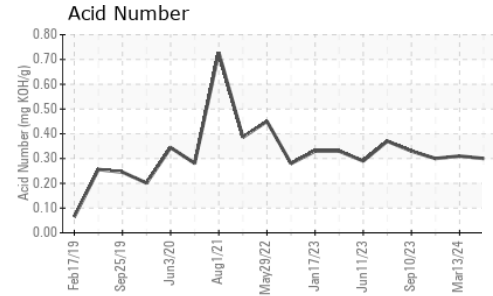
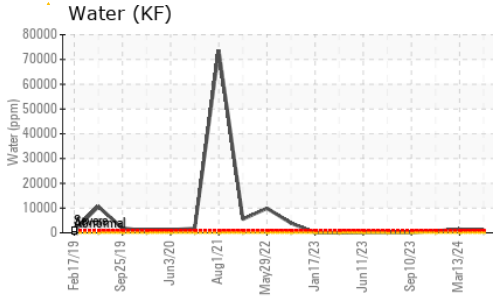
## FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.30</b>	0.31	0.30

## VISUAL

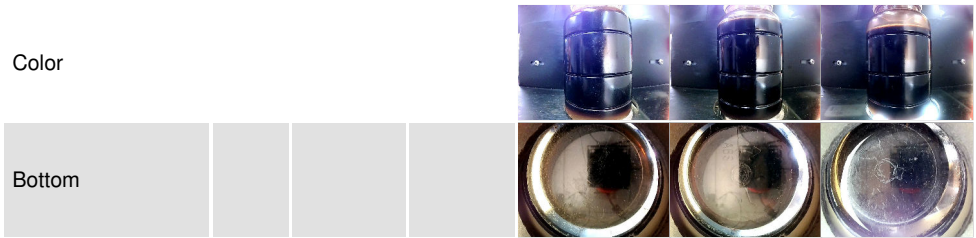
	method	limit/base	current	history1	history2
White Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual NONE	<b>NONE</b>	NONE	<b>▲ MODER</b>
Sand/Dirt	scalar	*Visual NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual >2	<b>0.2%</b>	0.2%	0.2%
Free Water	scalar	*Visual >2	<b>▲ 5.0</b>	NEG	<b>▲ 1.5</b>

# OIL ANALYSIS REPORT

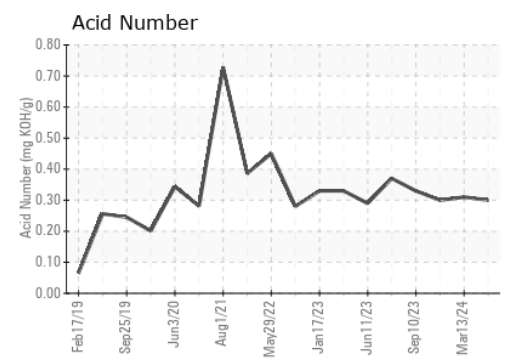
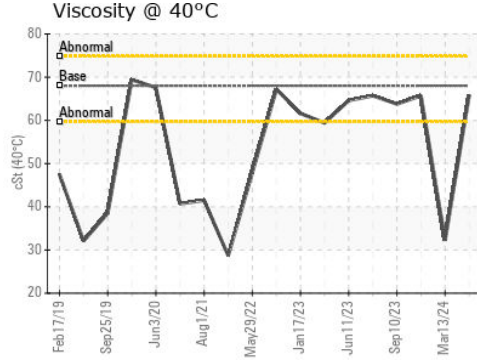
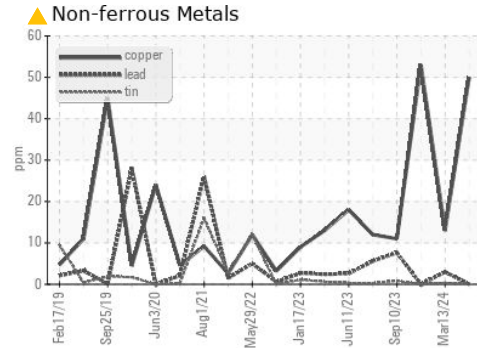
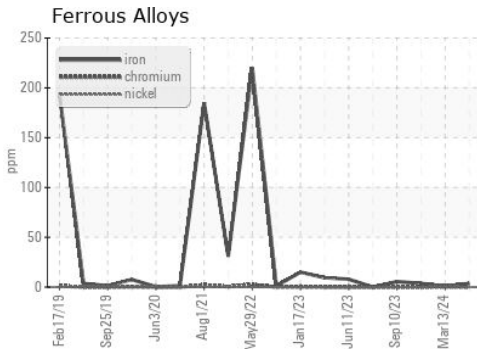


FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445 68	65.8	32.22	65.7

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : RP0043284  
**Lab Number** : 06200274  
**Unique Number** : 11062397  
**Test Package** : IND 2  
**Received** : 05 Jun 2024  
**Tested** : 06 Jun 2024  
**Diagnosed** : 07 Jun 2024 - Don Baldrige

**ENGIE-MATEP**  
 474 BROOKLINE AVE  
 BOSTON, MA  
 US 02215

Contact: ROBERT ST SAUVEUR  
 robert.stsauveur@engie.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)651-9381

F: