

PROBLEM SUMMARY

Sample Rating Trend

WATER

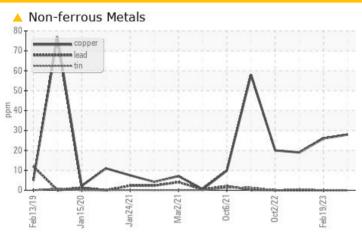


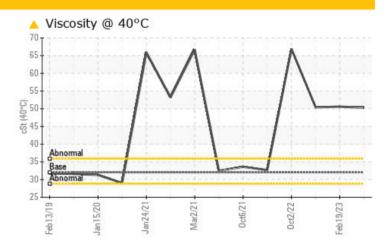
BFP-1A

Component **Outboard Bearing**

ROYAL PURPLE SYNFILM GT 32 (--- GAL)

COMPONENT CONDITION SUMMARY





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				ABNORMAL	ABNORMAL	ABNORMAL			
Copper	ppm	ASTM D5185m	>20	28	<u>^</u> 26	19			
Free Water	scalar	*Visual		1.0	NEG	NEG			
Visc @ 40°C	cSt	ASTM D445	32	△ 50.3	△ 50.6	△ 50.4			

Customer Id: ENGBOS Sample No.: RP0031545 Lab Number: 05871000 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

To change component or sample information: Customer Service +1 1-800-237-1369 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

19 Feb 2023 Diag: Don Baldridge

WEAR



No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other 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 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



21 Nov 2022 Diag: Angela Borella

WEAR



Resample at the next service interval to monitor. Bearing wear is indicated. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 46 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

View report

02 Oct 2022 Diag: Don Baldridge

VISCOSITY



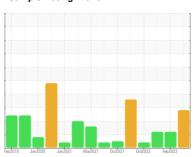
Resample at the next service interval to monitor. All component wear rates are normal. The water content is negligible. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 68 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



WATER



BFP-1A

Component

ROYAL PURPLE SYNFILM GT 32 (--- GAL)

Outboard Bearing

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.

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

Contamination

Free water present.

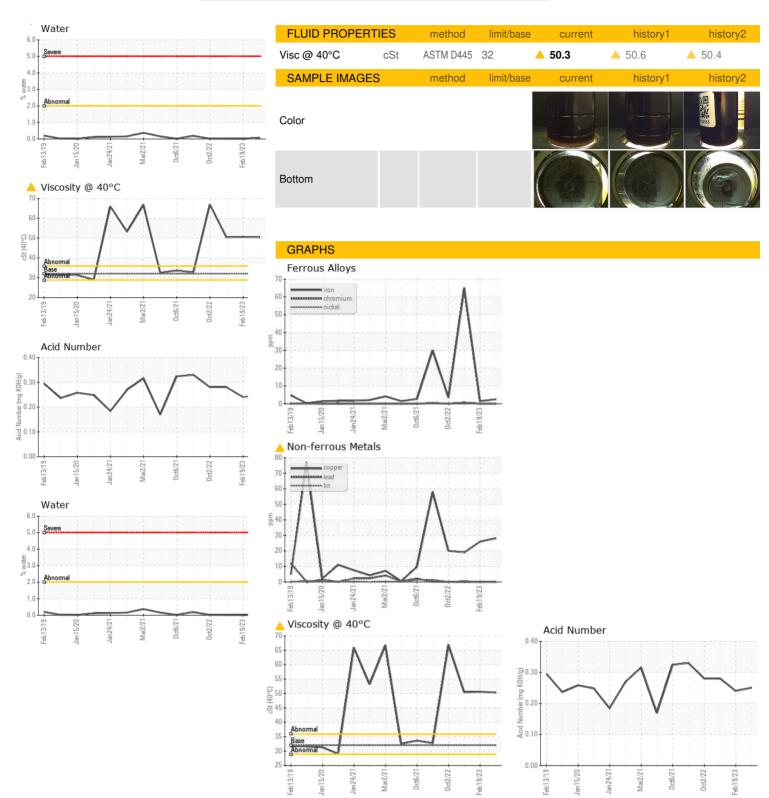
Fluid Condition

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

		Feb 2019 J	an2020 Jan2021 Mar	2021 Oct2021 Oct2022	Feb 2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		RP0031545	RP0031560	RP0029585
Sample Date		Client Info		11 Jun 2023	19 Feb 2023	21 Nov 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	2	2	△ 65
Chromium	ppm	ASTM D5185m	>20	0	0	<1
Nickel	ppm	ASTM D5185m	>20	0	0	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	A 28	<u>^</u> 26	19
Tin	ppm	ASTM D5185m	>20	0	0	<1
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	<1
Magnesium	ppm	ASTM D5185m		0	0	0
Calcium	ppm	ASTM D5185m		0	0	0
Phosphorus	ppm	ASTM D5185m		2	14	6
Zinc	ppm	ASTM D5185m		0	0	0
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	0	1
Sodium	ppm	ASTM D5185m		<1	0	0
Potassium	ppm	ASTM D5185m	>20	0	0	0
Water	%	ASTM D6304	>2	0.078	0.006	0.009
ppm Water	ppm	ASTM D6304		780	61.5	95.9
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.25	0.24	0.28
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	LIGHT	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>2	0.2%	NEG	NEG
Free Water	scalar	*Visual	;	<u> </u>	ERTISGSAUV	EURN EN GBOS



OIL ANALYSIS REPORT







Certificate L2367

Laboratory Sample No. Lab Number **Unique Number**

: RP0031545 : 05871000

: 10510784 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 Received : 12 Jun 2023 Diagnosed : 14 Jun 2023

Diagnostician : Don Baldridge

ENGIE-MATEP 474 BROOKLINE AVE BOSTON, MA US 02215

Contact: ROBERT ST SAUVEUR

robert.stsauveur@engie.com

T: (401)651-9381

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)

F: