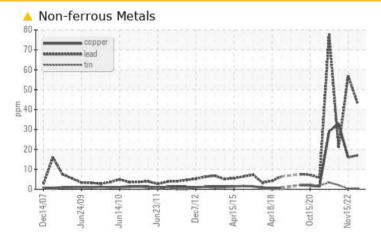


# **PROBLEM SUMMARY**

#### Area [199029] Machine Id PBK G LGBR Component

Bearing Fluid MOBIL DTE OIL HVY MEDIUM (136 LTR)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drainoff procedure for this component. We recommend an early resample to monitor this condition.

### PROBLEMATIC TEST RESULTS

Sample Status				ABNORMAL	ABNORMAL	SEVERE
Copper	ppm	ASTM D5185(m)	>13	<u> </u>	<b>1</b> 6	• 33
Free Water	scalar	Visual*		<b>5%</b>	NEG	A 5%

Customer Id: NEWSTJ Sample No.: WC0455717 Lab Number: 02563214 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Kevin Marson +1 (289)291-4644 x4644 Kevin.Marson@wearcheck.com

*To change component or sample information:* Gloria Gonzalez +1 (289)291-4643 x4643 <u>gloria.gonzalez@wearcheck.com</u>



RECOMMENDE	D 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 Breathers			?	The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather.
Check Water Acces	SS		?	We advise that you check for the source of water entry.
Check Seals			?	Check seals and/or filters for points of contaminant entry.

### HISTORICAL DIAGNOSIS

#### 15 Nov 2022 Diag: Kevin Marson

WEAR



We recommend you service the filters on this component. We recommend an early resample to monitor this condition.Copper ppm levels are abnormal. Bearing wear is indicated. Oil Cleanliness are abnormally high. Particles >4 $\mu$ m are abnormally high. Particles >6 $\mu$ m are abnormally high. Particles >14 $\mu$ m are notably high. The water content is negligible. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





WFAR

### 02 Jun 2022 Diag: Kevin Marson

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you use offline filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend that you change the oil. We recommend an early resample to monitor this condition.Copper ppm levels are severe. Bearing wear is indicated. There is a moderate concentration of water present in the oil. Free water present. The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.



view report

### 20 Oct 2021 Diag: Kevin Marson

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We recommend that you drain the oil from the component if this has not already been done. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition. NOTE: Test values may be askew due high concentration of free water present in sample.Copper ppm levels are severe. Lead ppm levels are noted. A sharp increase in the lead level is noted. A sharp increase in the copper level is noted. Bearing wear is indicated. Free water present. The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.





## **OIL ANALYSIS REPORT**

#### Area [199029] Machine Id PBK G LGBR Component

### Bearing Fluid MOBIL DTE OIL HVY MEDIUM (136 LTR)

### DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We advise that you follow the water drain-off procedure for this component. We recommend an early resample to monitor this condition.

### 🔺 Wear

Copper ppm levels are abnormal. Bearing wear is indicated.

Contamination

Free water present.

### Fluid Condition

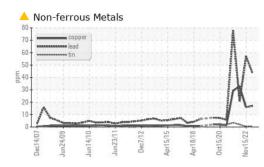
The AN level is acceptable for this fluid. The oil is no longer serviceable as a result of the abnormal and/or severe wear.

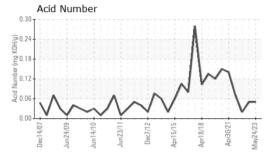


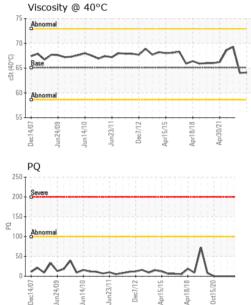
SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0455717	WC0455737	WC0445369
Sample Date		Client Info		24 May 2023	15 Nov 2022	02 Jun 2022
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	SEVERE
WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		0	0	0
Iron	ppm	ASTM D5185(m)	>63	8	6	19
Chromium	ppm	ASTM D5185(m)	>20	0	0	0
Nickel	ppm	ASTM D5185(m)	>20	<1	0	0
Titanium	ppm	ASTM D5185(m)		0	0	0
Silver	ppm	ASTM D5185(m)		0	0	0
Aluminum	ppm	ASTM D5185(m)	>2	<1	0	0
Lead	ppm	ASTM D5185(m)	>161	43	57	21
Copper	ppm	ASTM D5185(m)	>13	<mark>人</mark> 17	<b>1</b> 6	• 33
Tin	ppm	ASTM D5185(m)	>27	<1	<1	2
Antimony	ppm	ASTM D5185(m)		<1	0	<1
Vanadium	ppm	ASTM D5185(m)		0	0	0
Beryllium	ppm	ASTM D5185(m)		0	0	0
Cadmium	ppm	ASTM D5185(m)		<1	1	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<1	<1	0
Barium	ppm	ASTM D5185(m)		0	0	0
Molybdenum	ppm	ASTM D5185(m)		0	0	0
Manganese	ppm	ASTM D5185(m)		<1	<1	<1
Magnesium	ppm	ASTM D5185(m)		0	0	0
Calcium	ppm	ASTM D5185(m)		0	0	<1
Phosphorus	ppm	ASTM D5185(m)		139	130	131
Zinc	ppm	ASTM D5185(m)		29	32	17
Sulfur	ppm	ASTM D5185(m)		1365	1342	800
Lithium	ppm	ASTM D5185(m)		<1	<1	<1
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>12	1	<1	<1
Sodium	ppm	ASTM D5185(m)		0	<1	0
Potassium	ppm	ASTM D5185(m)	>20	0	<1	<1
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		0.05	0.05	0.02



# **OIL ANALYSIS REPORT**

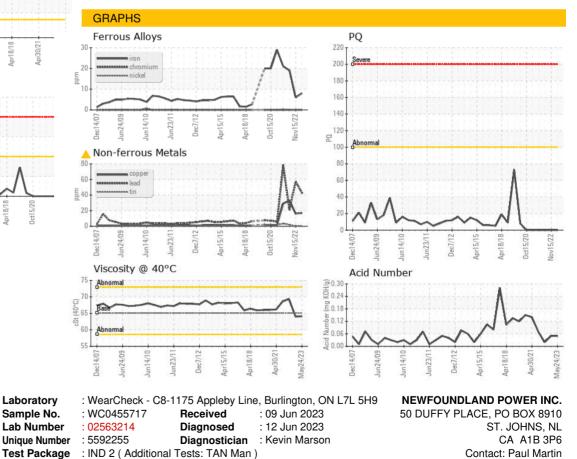






VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE	NONE
Precipitate	scalar	Visual*	NONE	NONE	NONE	🔺 LIGHT
Silt	scalar	Visual*	NONE	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	NONE	NONE	NONE
Sand/Dirt	scalar	Visual*	NONE	NONE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML	🔺 MILKY
Odor	scalar	Visual*	NORML	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	.2%	.2%	.5%
Free Water	scalar	Visual*		<mark>/</mark> 5%	NEG	▲ 5%
FLUID PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	65.1	64.1	64.0	69.3
SAMPLE IMAGES	6	method	limit/base	current	history1	history2
Color						

Bottom



To discuss this sample report, contact Customer Service at 1-800-268-2131. Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab. Validity of results and interpretation are based on the sample and information as supplied.

CALA

ISO 17025:2017 Accredited Laboratory

F: (709)737-2926

T:

pmartin@newfoundlandpower.com