



# PROBLEM SUMMARY

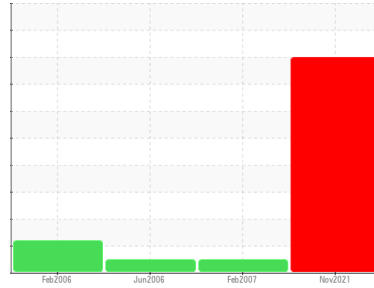
Sample Rating Trend

DIRT



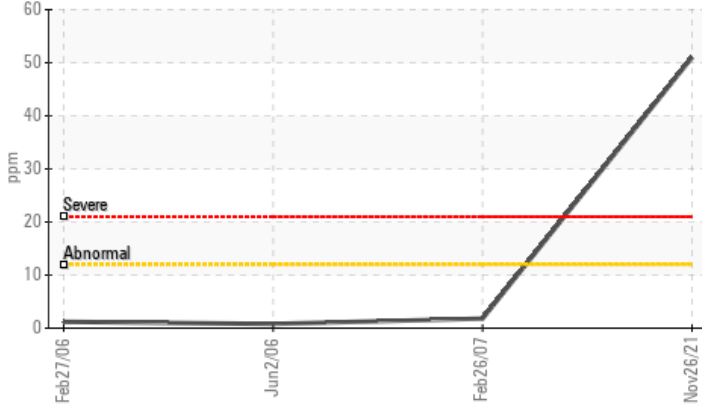
Area  
**[188538]**  
Machine Id  
**CAB G THBR**

Component  
**Bearing**  
Fluid  
**MOBIL DTE OIL HVY MEDIUM (--- GAL)**

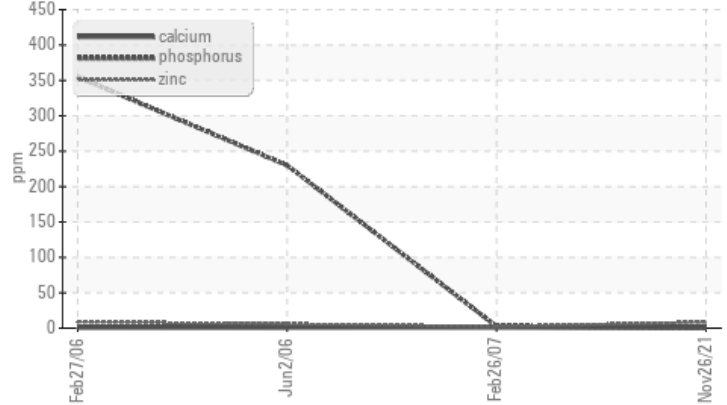


## COMPONENT CONDITION SUMMARY

### ● Silicon (ppm)



### ▲ Additives



## RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. 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 off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend that you change the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## PROBLEMATIC TEST RESULTS

Sample Status		SEVERE	NORMAL	NORMAL
Phosphorus	ppm ASTM D5185(m)	▲ <1	2	230
Silicon	ppm ASTM D5185(m) >12	● 51	2	<1
Precipitate	scalar Visual*	▲ LIGHT	NONE	NONE
Free Water	scalar Visual*	▲ 1%	NEG	NEG

Customer Id: NEWSTJ  
 Sample No.: WC0445218  
 Lab Number: 02467372  
 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
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[Kevin.Marson@wearcheck.com](mailto:Kevin.Marson@wearcheck.com)

To change component or sample information:  
 Gloria Gonzalez +1 (289)291-4643 x4643  
[gloria.gonzalez@wearcheck.com](mailto:gloria.gonzalez@wearcheck.com)

## RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid	---	---	?	We recommend that you change the oil.
Change Filter	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.
Resample	---	---	?	We recommend an early resample to monitor this condition.
Information Required	---	---	?	NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.
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 Dirt Access	---	---	?	We advise that you check all areas where dirt can enter the system.
Check Fluid Source	---	---	?	Confirm the source of the lubricant being utilized for top-up/fill.
Check Water Access	---	---	?	We advise that you check for the source of water entry.
Check Seals	---	---	?	Check seals and/or filters for points of contaminant entry.
Filter Fluid	---	---	?	We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid.

## HISTORICAL DIAGNOSIS

### 26 Feb 2007 Diag:

NORMAL



Resample at the next service interval to monitor. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample. All component wear rates are normal. There is no indication of any contamination in the component. The condition of oil is suitable for further service.

view report



### 02 Jun 2006 Diag:

NORMAL



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

view report



### 27 Feb 2006 Diag:

DEGRADATION



We recommend an early resample to monitor this condition. All component wear rates are normal. There is no indication of any contamination in the component. The TAN level is at the top-end of the recommended limit. The condition of oil is suitable for further service.

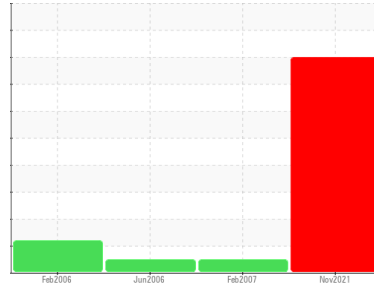
view report





# OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Area  
**[188538]**  
 Machine Id  
**CAB G THBR**

Component  
**Bearing**  
 Fluid  
**MOBIL DTE OIL HVY MEDIUM (--- GAL)**

## DIAGNOSIS

### Recommendation

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. We advise that you check all areas where dirt can enter the system. 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 off-line filtration with water adsorbent filters to attempt to remove the water from this oil. We recommend that you change the oil. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. Confirm the source of the lubricant being utilized for top-up/fill. We recommend an early resample to monitor this condition. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

### Wear

All component wear rates are normal.

### Contamination

Free water present. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### Fluid Condition

Additive levels indicate the addition of a different brand, or type of oil. The white residue present in the sample is oil additive precipitate. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

SAMPLE INFORMATION		method	limit/base	current	history1	history2
Sample Number	Client Info			<b>WC0445218</b>	PC293389	PC293063
Sample Date	Client Info			<b>26 Nov 2021</b>	26 Feb 2007	02 Jun 2006
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>	NORMAL	NORMAL

CONTAMINATION		method	limit/base	current	history1	history2
Water	WC Method		>2	<b>NEG</b>	NEG	NEG

WEAR METALS		method	limit/base	current	history1	history2
PQ		ASTM D8184*		<b>0</b>	---	---
Iron	ppm	ASTM D5185(m)	>63	<b>9</b>	<1	9
Chromium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Nickel	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	<1
Titanium	ppm	ASTM D5185(m)		<b>0</b>	<1	0
Silver	ppm	ASTM D5185(m)		<b>0</b>	0	0
Aluminum	ppm	ASTM D5185(m)	>2	<b>0</b>	0	0
Lead	ppm	ASTM D5185(m)	>161	<b>3</b>	<1	2
Copper	ppm	ASTM D5185(m)	>13	<b>&lt;1</b>	<1	4
Tin	ppm	ASTM D5185(m)	>27	<b>&lt;1</b>	<1	4
Antimony	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---
Vanadium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Beryllium	ppm	ASTM D5185(m)		<b>0</b>	---	---
Cadmium	ppm	ASTM D5185(m)		<b>0</b>	---	---

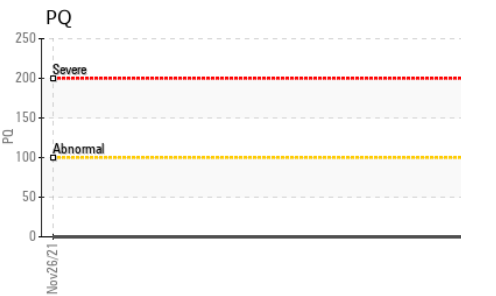
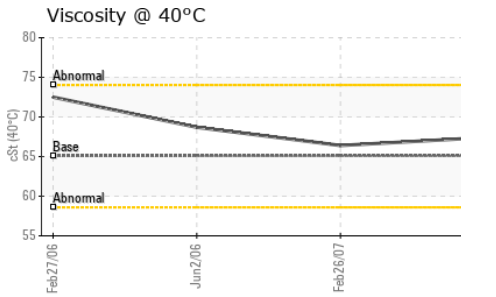
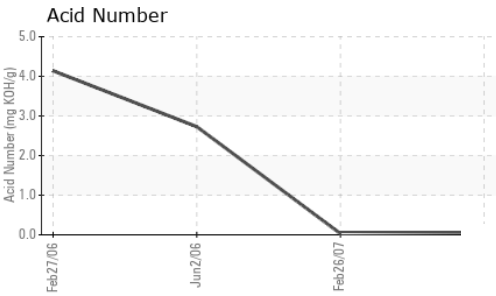
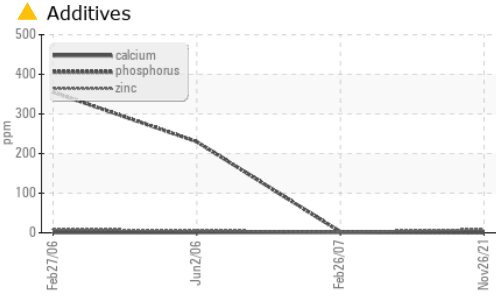
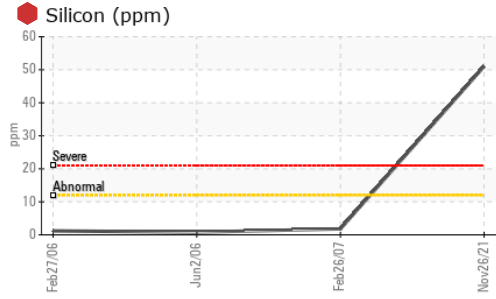
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185(m)		<b>&lt;1</b>	0	0
Barium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185(m)		<b>0</b>	0	0
Manganese	ppm	ASTM D5185(m)		<b>0</b>	0	<1
Magnesium	ppm	ASTM D5185(m)		<b>0</b>	0	0
Calcium	ppm	ASTM D5185(m)		<b>&lt;1</b>	<1	<1
Phosphorus	ppm	ASTM D5185(m)		<b>&lt;1</b>	2	230
Zinc	ppm	ASTM D5185(m)		<b>8</b>	2	6
Sulfur	ppm	ASTM D5185(m)		<b>2053</b>	1636	712
Lithium	ppm	ASTM D5185(m)		<b>&lt;1</b>	---	---

CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185(m)	>12	<b>51</b>	2	<1
Sodium	ppm	ASTM D5185(m)		<b>0</b>	<1	4
Potassium	ppm	ASTM D5185(m)	>20	<b>&lt;1</b>	<1	<1

FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D974*		<b>0.06</b>	0.03	2.73



# OIL ANALYSIS REPORT

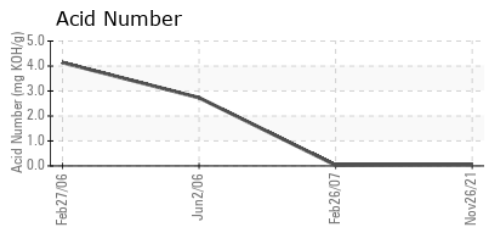
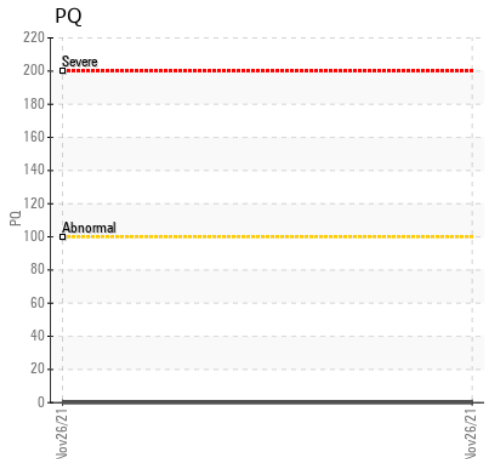
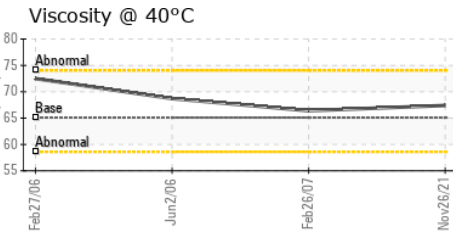
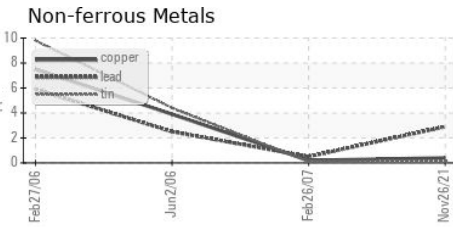
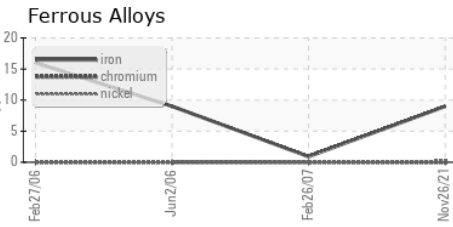


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	Visual*	NONE	NONE	NONE
Yellow Metal	scalar	Visual*	NONE	NONE	NONE
Precipitate	scalar	Visual*	▲ LIGHT	NONE	NONE
Silt	scalar	Visual*	NONE	NONE	NONE
Debris	scalar	Visual*	NONE	LIGHT	NONE
Sand/Dirt	scalar	Visual*	VLITE	NONE	NONE
Appearance	scalar	Visual*	NORML	NORML	NORML
Odor	scalar	Visual*	NORML	NORML	NORML
Emulsified Water	scalar	Visual*	>2	1%	NEG
Free Water	scalar	Visual*		▲ 1%	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D7279(m)	65.1	67.4	66.4

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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : WC0445218 **Received** : 20 Jan 2022  
**Lab Number** : 02467372 **Diagnosed** : 26 Jan 2022  
**Unique Number** : 5344290 **Diagnostician** : Kevin Marson  
**Test Package** : IND 2 ( Additional Tests: Bottom, TAN Man )

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.

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