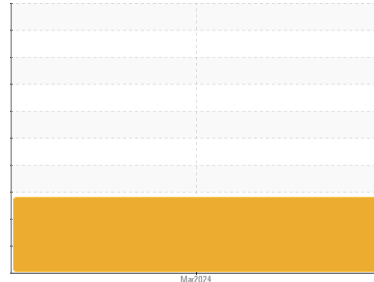




# GREASE ANALYSIS

Sample Rating Trend



WEAR PARTICLES



Machine Id  
**ID FAN #3 NDE TOP**

Component  
**Top Grease**

Fluid  
**MOBIL MOBILITH SHC SERIES 100 (--- GAL)**

## DIAGNOSIS

### Recommendation

We recommend that you re-grease the component if this has not already been done. We recommend an early resample to monitor this condition.

### Wear

Wear particle analysis indicates that the ferrous rolling and ferrous sliding particles are abnormal.

### Grease Condition

The grease is no longer serviceable as a result of the abnormal and/or severe wear.

### Contaminants

There is no indication of any contamination in the grease.

## SAMPLE INFORMATION

method	limit/base	current	history1	history2
Sample Number	Client Info	<b>PP</b>	---	---
Sample Date	Client Info	<b>07 Mar 2024</b>	---	---
Machine Age	yrs Client Info	<b>2</b>	---	---
Grease Age	yrs Client Info	<b>0</b>	---	---
Grease Serviced	Client Info	<b>N/A</b>	---	---
Sample Status		<b>ABNORMAL</b>	---	---

## WEAR METALS

method	limit/base	current	history1	history2	
PQ	ASTM D8184*	>200	<b>12</b>	---	---
Iron	ppm ASTM D5185(m)	>250	<b>6</b>	---	---
Chromium	ppm ASTM D5185(m)	>10	<b>0</b>	---	---
Nickel	ppm ASTM D5185(m)	>5	<b>&lt;1</b>	---	---
Cadmium	ppm ASTM D5185(m)		<b>0</b>	---	---
Titanium	ppm ASTM D5185(m)		<b>0</b>	---	---
Vanadium	ppm ASTM D5185(m)		<b>0</b>	---	---
Lead	ppm ASTM D5185(m)	>25	<b>0</b>	---	---
Copper	ppm ASTM D5185(m)	>75	<b>&lt;1</b>	---	---
Tin	ppm ASTM D5185(m)	>5	<b>0</b>	---	---
Silver	ppm ASTM D5185(m)	>5	<b>0</b>	---	---

## ADDITIVES

method	limit/base	current	history1	history2	
Boron	ppm ASTM D5185(m)	0	<b>0</b>	---	---
Magnesium	ppm ASTM D5185(m)	0	<b>0</b>	---	---
Manganese	ppm ASTM D5185(m)	0	<b>0</b>	---	---
Molybdenum	ppm ASTM D5185(m)	0	<b>0</b>	---	---
Phosphorus	ppm ASTM D5185(m)	200	<b>169</b>	---	---
Zinc	ppm ASTM D5185(m)	250	<b>241</b>	---	---
Antimony	ppm ASTM D5185(m)	0	<b>0</b>	---	---

## THICKENER/SOAP

method	limit/base	current	history1	history2	
Aluminum	ppm ASTM D5185(m)	0	<b>&lt;1</b>	---	---
Barium	ppm ASTM D5185(m)	0	<b>0</b>	---	---
Calcium	ppm ASTM D5185(m)	0	<b>2</b>	---	---
Sodium	ppm ASTM D5185(m)	2	<b>2</b>	---	---
Lithium	ppm ASTM D5185(m)	400	<b>408</b>	---	---
Sulfur	ppm ASTM D5185(m)	750	<b>715</b>	---	---

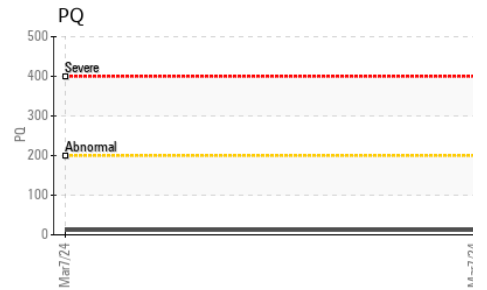
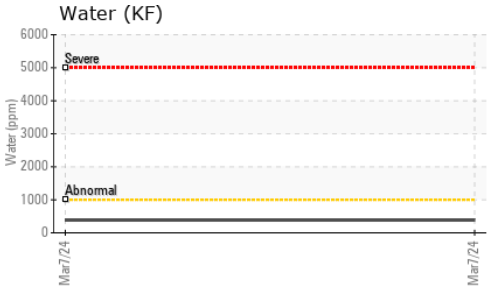
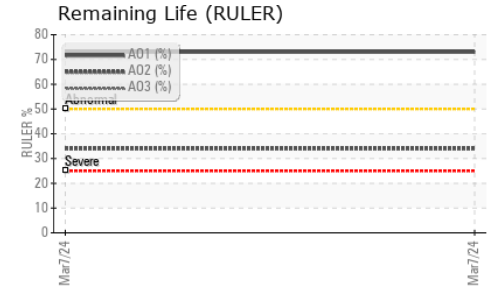
## CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm ASTM D5185(m)	>150	<b>&lt;1</b>	---	---
Potassium	ppm ASTM D5185(m)		<b>&lt;1</b>	---	---
Water	% ASTM D6304*	>0.1	<b>0.038</b>	---	---
ppm Water	ppm ASTM D6304*	>1000	<b>388</b>	---	---

## GREASE CONDITION

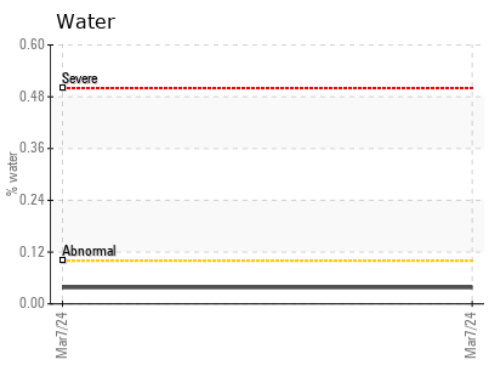
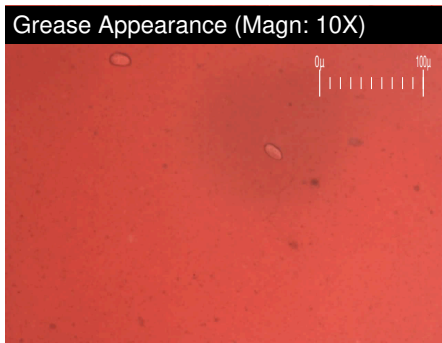
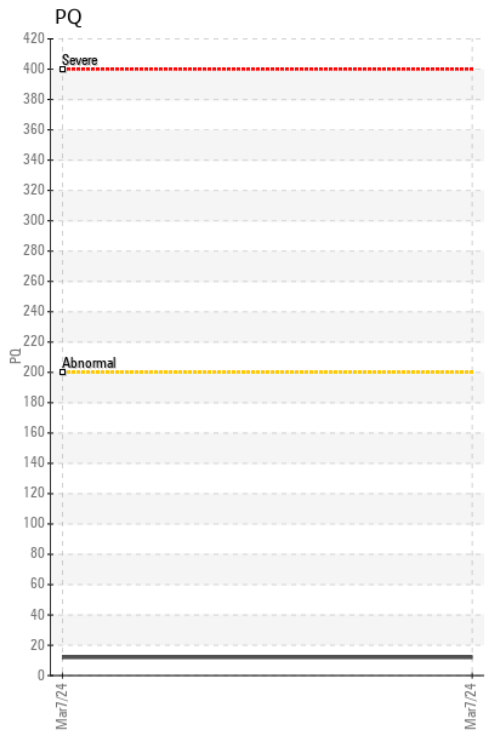
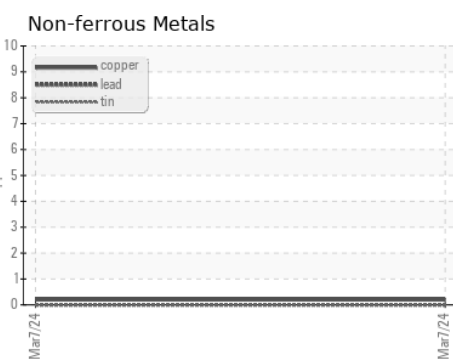
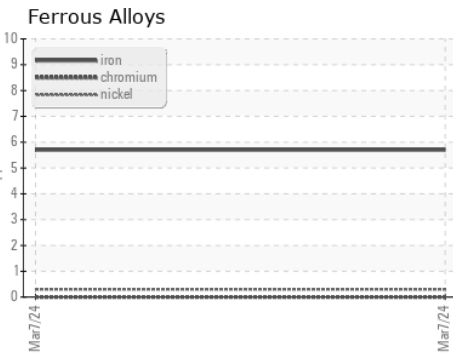
method	limit/base	current	history1	history2	
Grease Color	Visual*	red	<b>Red</b>	---	---
Texture	In-house*		<b>Short fiber</b>	---	---
NLGI Consistency	NLGI Scale SKF Method*	2	<b>2-3</b>	---	---
Oil Separation (Bleed)	% SKF Method*	>+/-25%	<b>-11.8</b>	---	---
Anti-Oxidant 1	% ASTM D6971*	<25%	<b>73</b>	---	---
Anti-Oxidant 2	% ASTM D6971*	<25%	<b>34</b>	---	---

# GREASE ANALYSIS



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

## GRAPHS



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : PP **Received** : 12 Mar 2024  
**Lab Number** : 02621645 **Tested** : 25 Mar 2024  
**Unique Number** : 5746764 **Diagnosed** : 25 Mar 2024 - Bill Quesnel  
**Test Package** : GRS 3 ( Additional Tests: BottomAnalysis )  
 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.

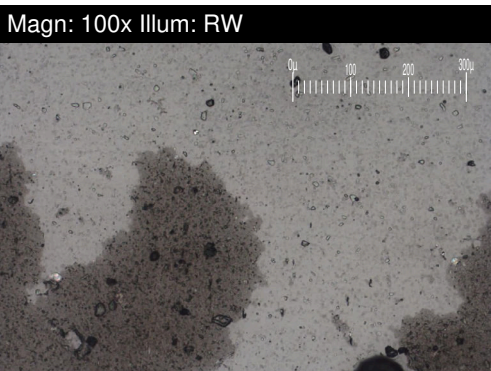
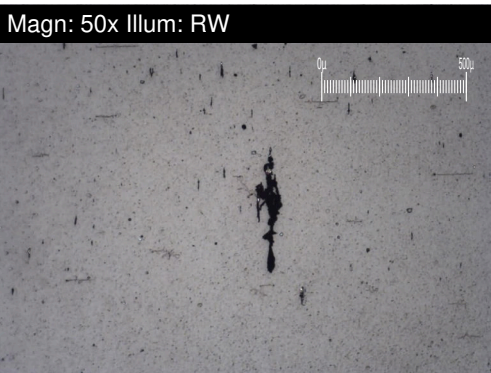
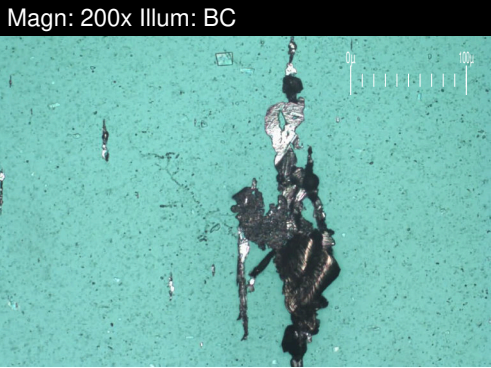
**DUFFIN CREEK (YORK-DURHAM) WPCP**  
 901 MCKAY ROAD  
 PICKERING, ON  
 CA L1W 3A3  
 Contact: Al Roffey  
 AL.ROFFEY@REGION.DURHAM.ON.CA  
 T: (905)683-9109  
 F: (905)686-3956

# FERROGRAPHY REPORT

Machine Id  
**ID FAN #3 NDE TOP**

Component  
**Top Grease**

Fluid  
**MOBIL MOBILITH SHC SERIES 100 (--- GAL)**



FERROGRAPHY		method	limit/base	current	history1	history2
Ferrous Rubbing	Scale 0-10	ASTM D7684*		■ 3		
Ferrous Sliding	Scale 0-10	ASTM D7684*		▲ ■ 3		
Ferrous Cutting	Scale 0-10	ASTM D7684*				
Ferrous Rolling	Scale 0-10	ASTM D7684*		▲ ■ 3		
Ferrous Break-in	Scale 0-10	ASTM D7684*				
Ferrous Spheres	Scale 0-10	ASTM D7684*				
Ferrous Black Oxides	Scale 0-10	ASTM D7684*		■ 2		
Ferrous Red Oxides	Scale 0-10	ASTM D7684*				
Ferrous Corrosive	Scale 0-10	ASTM D7684*				
Ferrous Other	Scale 0-10	ASTM D7684*				
Nonferrous Rubbing	Scale 0-10	ASTM D7684*		■ 2		
Nonferrous Sliding	Scale 0-10	ASTM D7684*				
Nonferrous Cutting	Scale 0-10	ASTM D7684*				
Nonferrous Rolling	Scale 0-10	ASTM D7684*		■ 2		
Nonferrous Other	Scale 0-10	ASTM D7684*				
Carbonaceous Material	Scale 0-10	ASTM D7684*				
Lubricant Degradation	Scale 0-10	ASTM D7684*				
Sand/Dirt	Scale 0-10	ASTM D7684*		■ 2		
Fibres	Scale 0-10	ASTM D7684*				
Spheres	Scale 0-10	ASTM D7684*				
Other	Scale 0-10	ASTM D7684*		■ 3		

### WEAR

Wear particle analysis indicates that the ferrous rolling and ferrous sliding particles are abnormal.

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