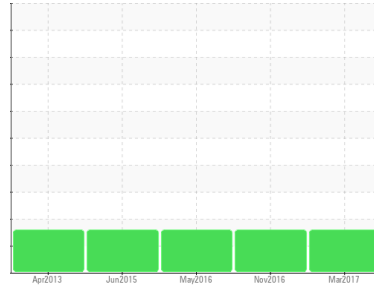


# PROBLEM SUMMARY

Sample Rating Trend

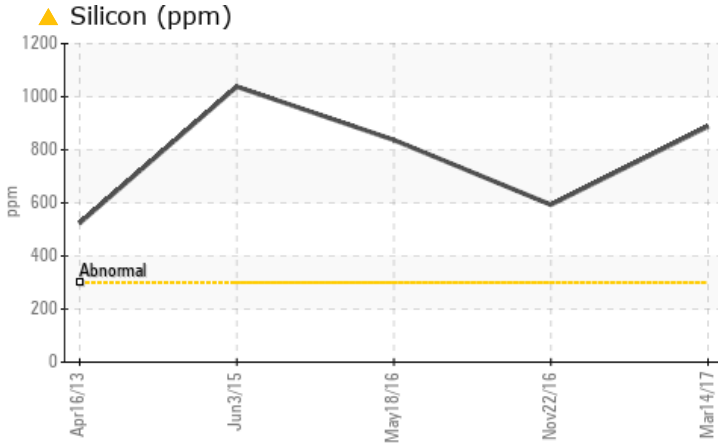


**DIRT**



Machine Id  
**CHW-083 - MAIN BEARING**  
Component  
**Main Grease**  
Fluid  
**MOBIL MOBILITH SHC PM 220 (--- GAL)**

## COMPONENT CONDITION SUMMARY



## RECOMMENDATION

No corrective action is recommended at this time.  
Resample at the next service interval to monitor.

## PROBLEMATIC TEST RESULTS

Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>+300	▲ <b>888</b>	▲ 593	▲ 837

Customer Id: MITCAL  
Sample No.: MHI148171  
Lab Number: 04269286  
Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data:  
Doug Bogart +1 (800)237-1369 x4016  
[dougb@wearcheckusa.com](mailto:dougb@wearcheckusa.com)

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

## RECOMMENDED ACTIONS

*There are no recommended actions for this sample.*

## HISTORICAL DIAGNOSIS

### 22 Nov 2016 Diag: Jonathan Hester

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



### 18 May 2016 Diag: Jonathan Hester

DIRT



No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



### 03 Jun 2015 Diag: Jonathan Hester

DIRT



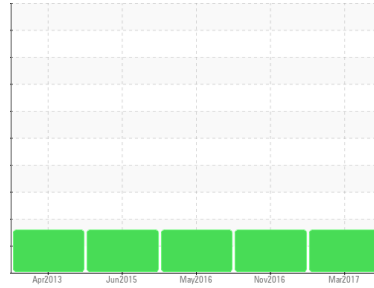
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



**DIRT**



Machine Id  
**CHW-083 - MAIN BEARING**

Component  
**Main Grease**  
Fluid  
**MOBIL MOBILITH SHC PM 220 (--- GAL)**

### DIAGNOSIS

**Recommendation**

No corrective action is recommended at this time. Resample at the next service interval to monitor.

**Wear**

All component wear rates are normal.

**Grease Condition**

The AN level is acceptable for this fluid.

**Contaminants**

Elemental level of silicon (Si) above normal.

### SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>MHI148171</b>	MHI004805	MHI005852
Sample Date	Client Info		<b>14 Mar 2017</b>	22 Nov 2016	18 May 2016
Machine Age	hrs	Client Info	<b>0</b>	0	23311
Grease Age	hrs	Client Info	<b>0</b>	0	23311
Grease Serviced	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

### WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>184</b>	82.0	33.0
Iron	ppm	ASTM D5185m >30000	<b>371</b>	134	50
Chromium	ppm	ASTM D5185m >150	<b>6</b>	2	1
Nickel	ppm	ASTM D5185m	<b>4</b>	2	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	<1
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	<b>0</b>	<1	<1
Lead	ppm	ASTM D5185m	<b>0</b>	0	0
Copper	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	<b>13</b>	0	0
Antimony	ppm	ASTM D5185m	<b>0</b>	0	2
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

### ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>2</b>	<1	2
Barium	ppm	ASTM D5185m	<b>0</b>	<1	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>3</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	<1
Calcium	ppm	ASTM D5185m	<b>0</b>	1	8
Phosphorus	ppm	ASTM D5185m	<b>1112</b>	789	2060
Zinc	ppm	ASTM D5185m	<b>1910</b>	1562	3216
Sulfur	ppm	ASTM D5185m	<b>5034</b>	4158	8830

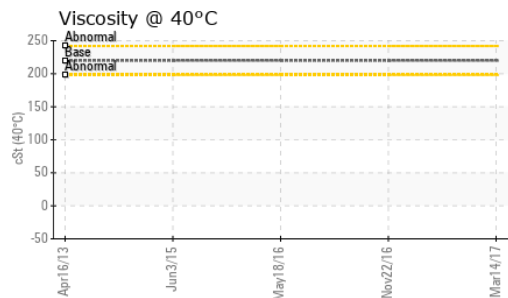
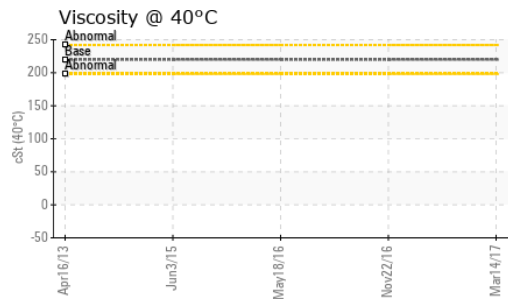
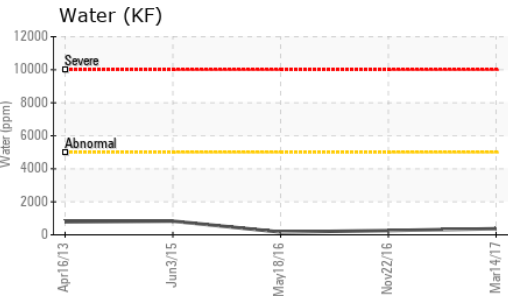
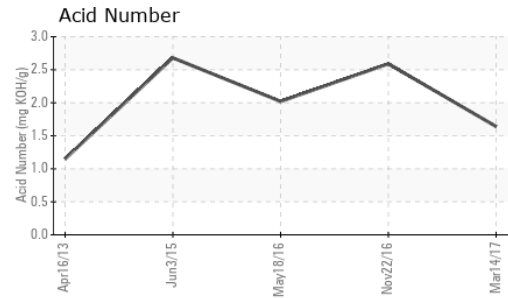
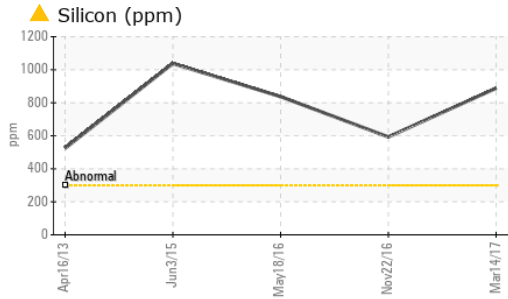
### CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+300	<b>▲ 888</b>	▲ 593	▲ 837
Sodium	ppm	ASTM D5185m	<b>4</b>	2	6
Potassium	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Water	%	ASTM D6304 >0.5	<b>0.037</b>	0.026	0.017
ppm Water	ppm	ASTM D6304 >5000	<b>370</b>	260	170

### FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>1.64</b>	2.59	2.02

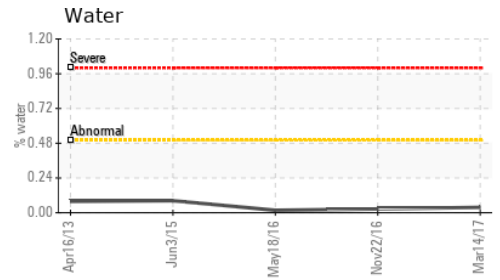
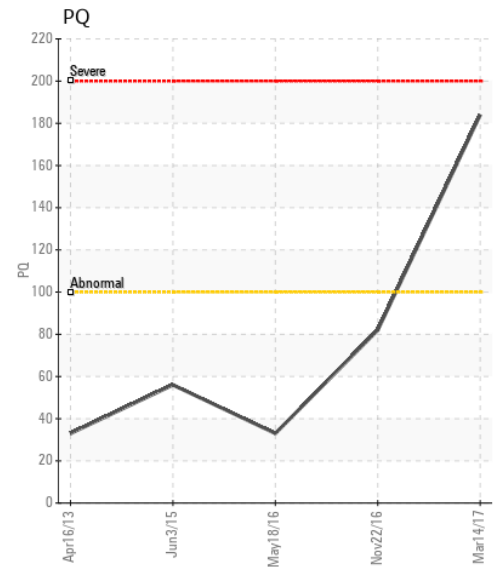
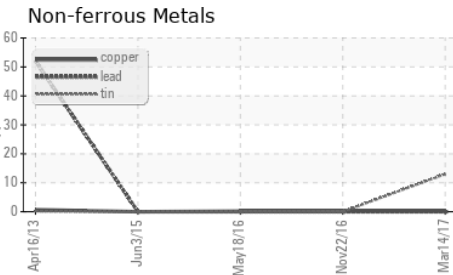
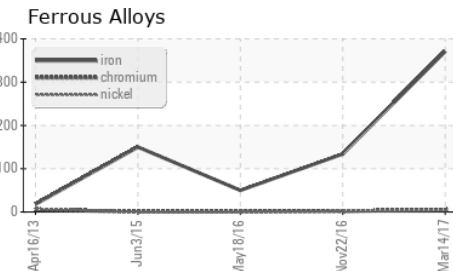
# OIL ANALYSIS REPORT



VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.5	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

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

## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MHI148171 **Received** : 25 Jul 2017  
**Lab Number** : 04269286 **Diagnosed** : 28 Jul 2017  
**Unique Number** : 7872752 **Diagnostician** : Doug Bogart  
**Test Package** : IND 2 ( Additional Tests: KF, PQ )

DEUTSCHE WINDTECHNIK - CANADIAN HILLS - MPS CH  
 14730 EDMOND RD NW  
 CALUMET, OK  
 US 73014  
 Contact: ANGEL LAUZARA  
 a.lauzara@deutsche-windtechnik.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)