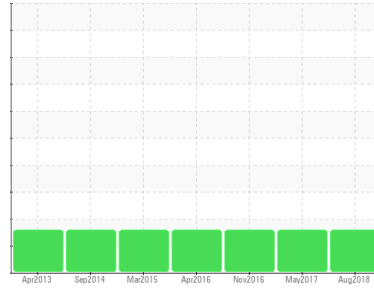


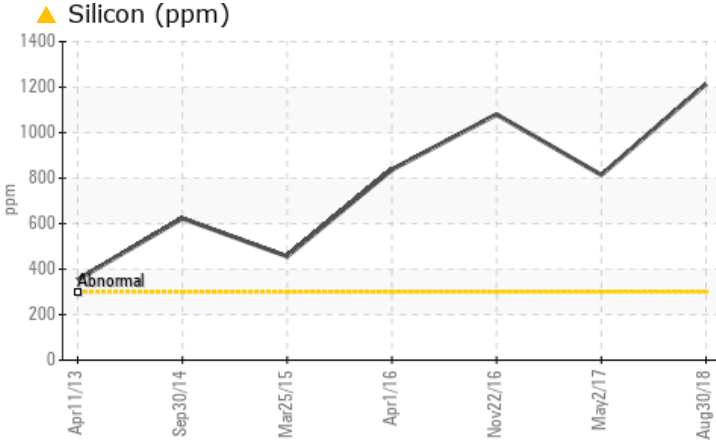
# PROBLEM SUMMARY

Sample Rating Trend



Machine Id  
**CHW-021 - MAIN BEARING**  
Component  
**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	ABNORMAL	ABNORMAL	ABNORMAL
Silicon	ppm	ASTM D5185m	>+300
	▲ 1214	▲ 814	▲ 1080

Customer Id: MITCAL  
Sample No.: MHI000724  
Lab Number: 04651624  
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

### 02 May 2017 Diag: Doug Bogart

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



### 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



### 01 Apr 2016 Diag: Jonathan Hester

DIRT



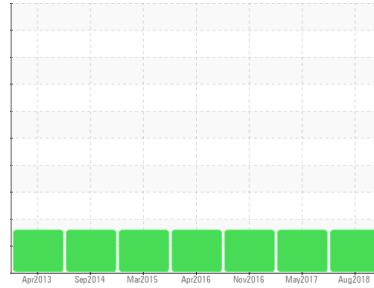
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



# OIL ANALYSIS REPORT

## Sample Rating Trend



**DIRT**



Machine Id  
**CHW-021 - MAIN BEARING**

Component  
**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	history 1	history 2
Sample Number	Client Info			<b>MHI000724</b>	MHII2276714	MHII2276906
Sample Date	Client Info			<b>30 Aug 2018</b>	02 May 2017	22 Nov 2016
Machine Age	hrs	Client Info		<b>0</b>	0	0
Grease Age	hrs	Client Info		<b>0</b>	0	0
Grease Serviced	Client Info			<b>N/A</b>	N/A	N/A
Sample Status				<b>ABNORMAL</b>	ABNORMAL	ABNORMAL

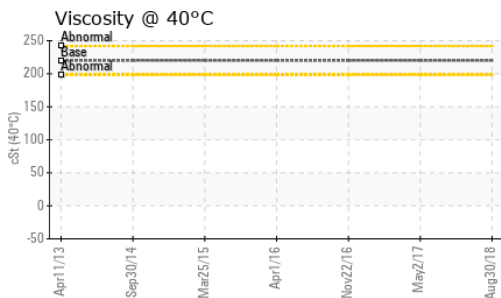
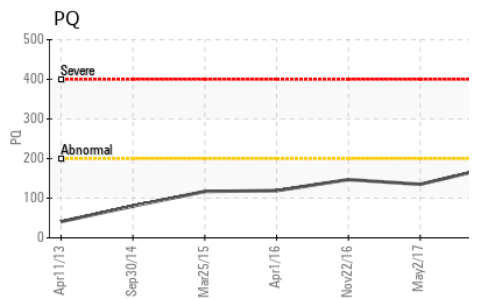
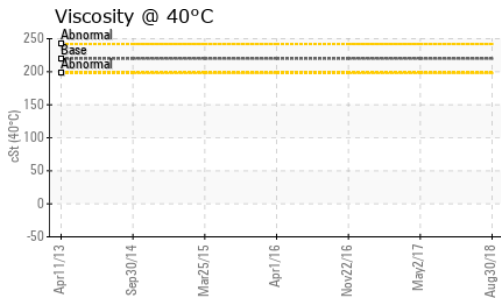
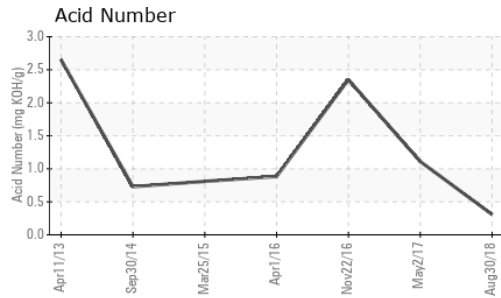
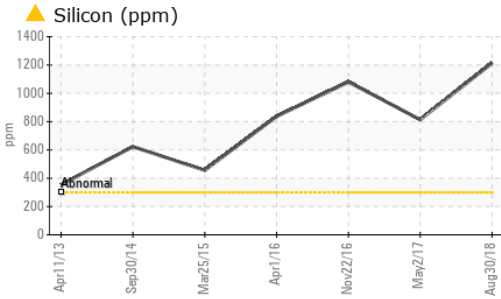
WEAR METALS		method	limit/base	current	history 1	history 2
PQ		ASTM D8184	>200	<b>178</b>	135	147
Iron	ppm	ASTM D5185m	>30000	<b>292</b>	194	239
Chromium	ppm	ASTM D5185m	>150	<b>5</b>	2	4
Nickel	ppm	ASTM D5185m		<b>2</b>	2	13
Titanium	ppm	ASTM D5185m		<b>0</b>	0	<1
Silver	ppm	ASTM D5185m		<b>&lt;1</b>	0	1
Aluminum	ppm	ASTM D5185m		<b>3</b>	2	<1
Lead	ppm	ASTM D5185m		<b>5</b>	0	12
Copper	ppm	ASTM D5185m		<b>14</b>	3	8
Tin	ppm	ASTM D5185m		<b>0</b>	0	10
Antimony	ppm	ASTM D5185m		<b>0</b>	0	0
Vanadium	ppm	ASTM D5185m		<b>0</b>	0	6
Cadmium	ppm	ASTM D5185m		<b>&lt;1</b>	0	2

ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		<b>14</b>	36	1
Barium	ppm	ASTM D5185m		<b>0</b>	0	7
Molybdenum	ppm	ASTM D5185m		<b>0</b>	0	0
Manganese	ppm	ASTM D5185m		<b>2</b>	0	2
Magnesium	ppm	ASTM D5185m		<b>0</b>	0	4
Calcium	ppm	ASTM D5185m		<b>32</b>	178	35
Phosphorus	ppm	ASTM D5185m		<b>2284</b>	1775	2473
Zinc	ppm	ASTM D5185m		<b>3608</b>	2880	3773
Sulfur	ppm	ASTM D5185m		<b>9941</b>	8467	10494

CONTAMINANTS		method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>+300	<b>▲ 1214</b>	▲ 814	▲ 1080
Sodium	ppm	ASTM D5185m		<b>7</b>	0	13
Potassium	ppm	ASTM D5185m	>20	<b>73</b>	0	29
Water	%	ASTM D6304	>0.5	<b>0.089</b>	0.074	0.030
ppm Water	ppm	ASTM D6304	>5000	<b>890</b>	740	300

FLUID DEGRADATION		method	limit/base	current	history 1	history 2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.308</b>	1.11	2.35

# OIL ANALYSIS REPORT

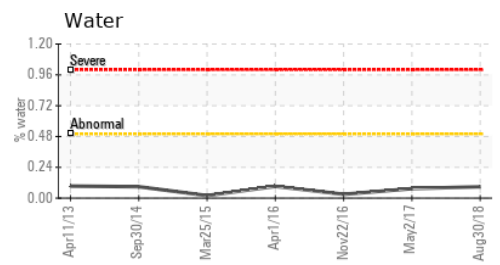
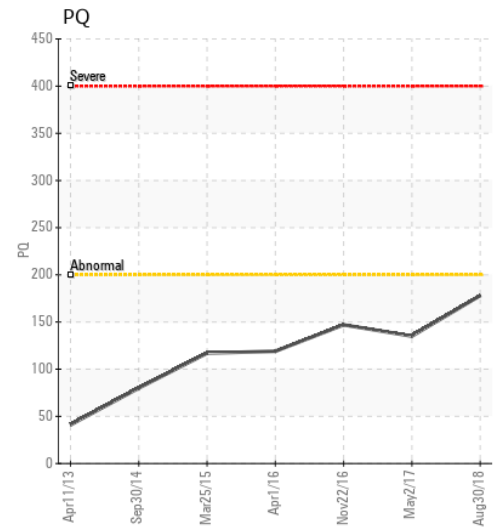
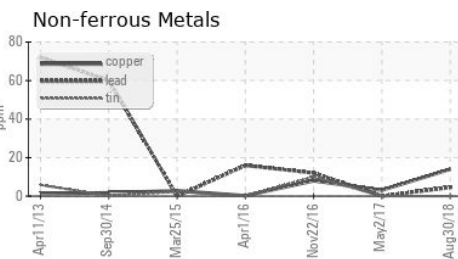
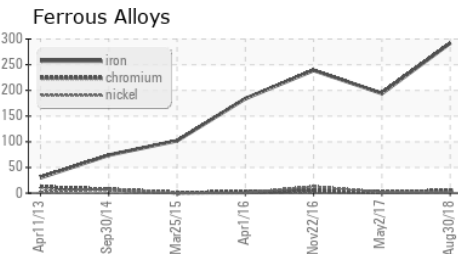


VISUAL	method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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	history 1	history 2
Color					
Bottom					



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MHI000724 **Received** : 15 Feb 2019  
**Lab Number** : 04651624 **Diagnosed** : 24 Feb 2019  
**Unique Number** : 8498124 **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)