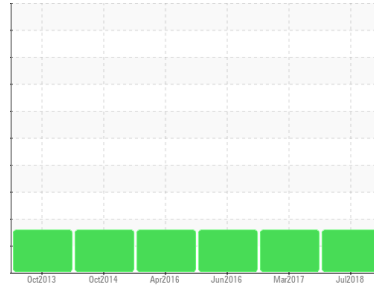


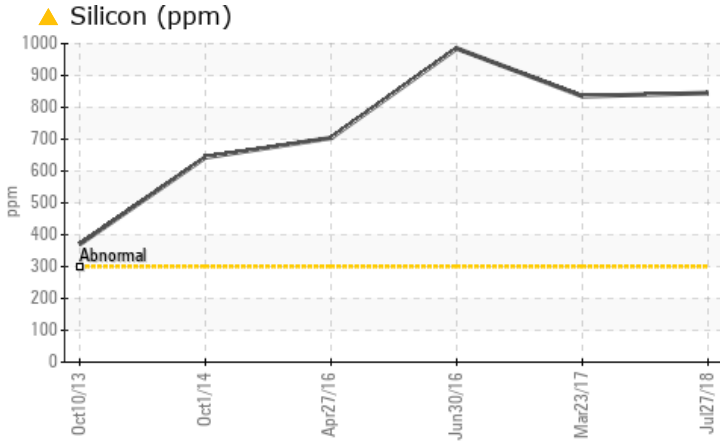
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
CHW-032 - 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
	▲ 845	▲ 835	▲ 985

Customer Id: MITCAL
Sample No.: MHI000560
Lab Number: 04651645
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

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

RECOMMENDED ACTIONS

There are no recommended actions for this sample.

HISTORICAL DIAGNOSIS

23 Mar 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



30 Jun 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



27 Apr 2016 Diag: Jonathan Hester

DIRT



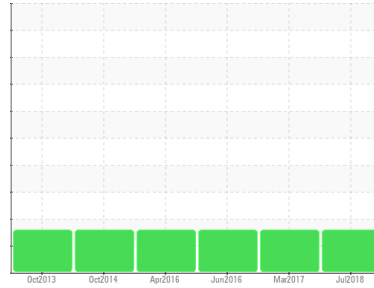
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
CHW-032 - 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	history1	history2
Sample Number	Client Info	MHI000560	MHI148409	MHI12276900
Sample Date	Client Info	27 Jul 2018	23 Mar 2017	30 Jun 2016
Machine Age	hrs	0	30106	24978
Grease Age	hrs	0	0	0
Grease Serviced	Client Info	N/A	N/A	N/A
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

method	limit/base	current	history1	history2		
PQ	ASTM D8184	>200	220	91	125	
Iron	ppm	ASTM D5185m	>30000	320	223	233
Chromium	ppm	ASTM D5185m	>150	6	3	4
Nickel	ppm	ASTM D5185m		2	2	5
Titanium	ppm	ASTM D5185m		1	<1	<1
Silver	ppm	ASTM D5185m		3	0	<1
Aluminum	ppm	ASTM D5185m		2	2	2
Lead	ppm	ASTM D5185m		0	2	0
Copper	ppm	ASTM D5185m		8	113	5
Tin	ppm	ASTM D5185m		0	12	2
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		1	0	2

ADDITIVES

method	limit/base	current	history1	history2		
Boron	ppm	ASTM D5185m		<1	7	4
Barium	ppm	ASTM D5185m		2	0	9
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		3	3	2
Magnesium	ppm	ASTM D5185m		0	0	8
Calcium	ppm	ASTM D5185m		9	28	43
Phosphorus	ppm	ASTM D5185m		1549	2390	2794
Zinc	ppm	ASTM D5185m		2501	3314	4214
Sulfur	ppm	ASTM D5185m		6455	10076	11602

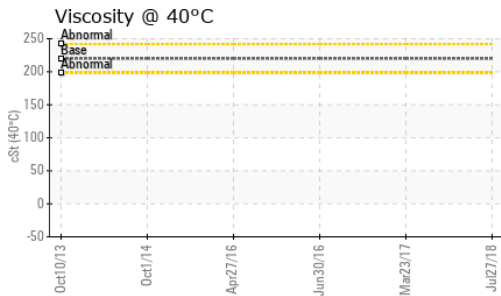
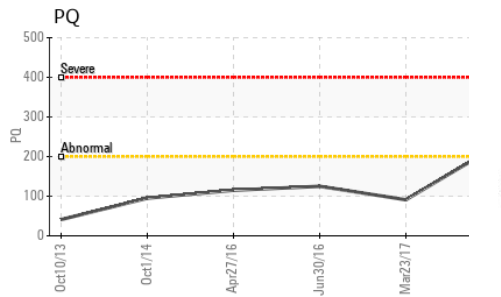
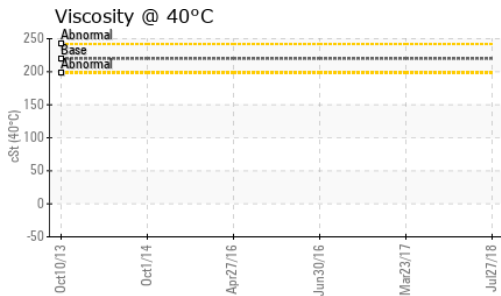
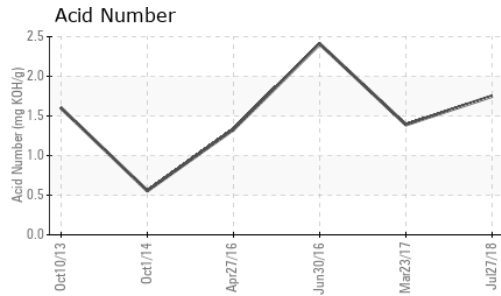
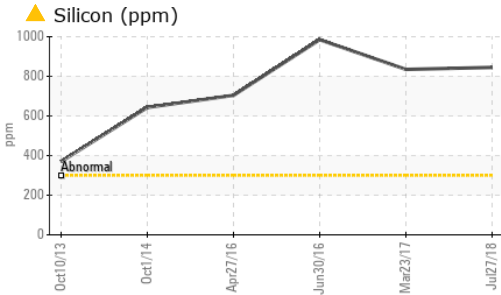
CONTAMINANTS

method	limit/base	current	history1	history2		
Silicon	ppm	ASTM D5185m	>+300	▲ 845	▲ 835	▲ 985
Sodium	ppm	ASTM D5185m		6	15	10
Potassium	ppm	ASTM D5185m	>20	0	0	91
Water	%	ASTM D6304	>0.5	0.071	0.159	0.029
ppm Water	ppm	ASTM D6304	>5000	710	1590	290

FLUID DEGRADATION

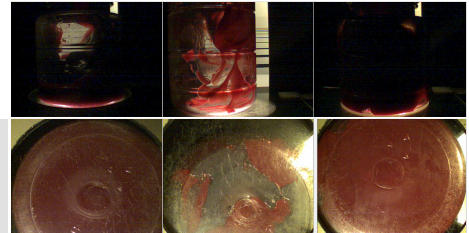
method	limit/base	current	history1	history2		
Acid Number (AN)	mg KOH/g	ASTM D8045		1.75	1.39	2.41

OIL ANALYSIS REPORT

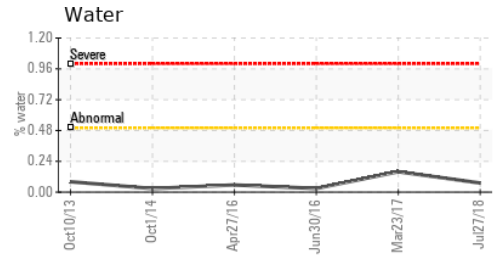
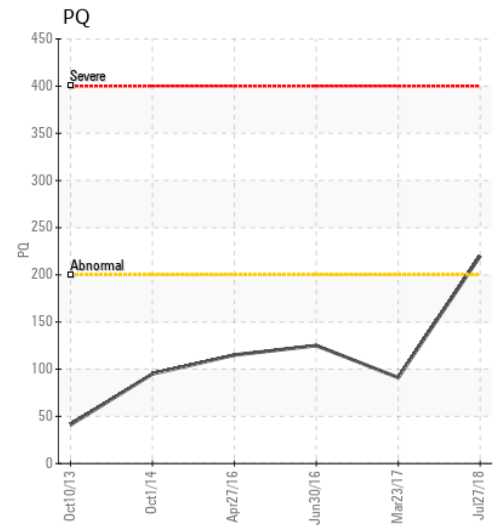
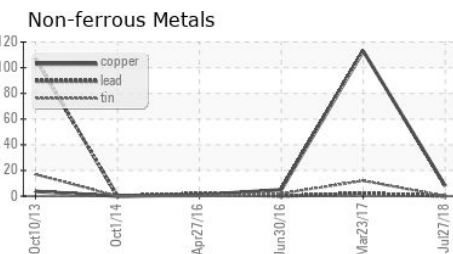
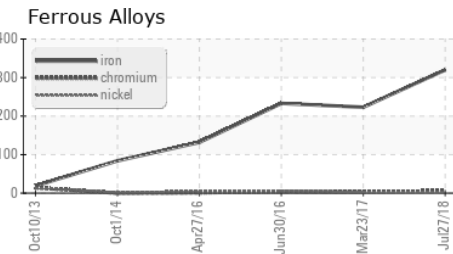


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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					
Bottom					



GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MHI000560 **Received** : 15 Feb 2019
Lab Number : 04651645 **Diagnosed** : 24 Feb 2019
Unique Number : 8498145 **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

Certificate L2367
 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)