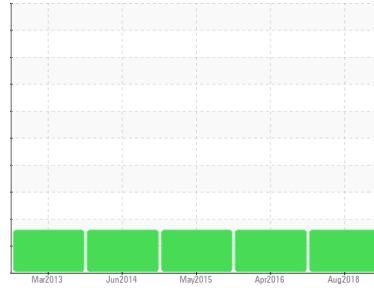


PROBLEM SUMMARY

Sample Rating Trend



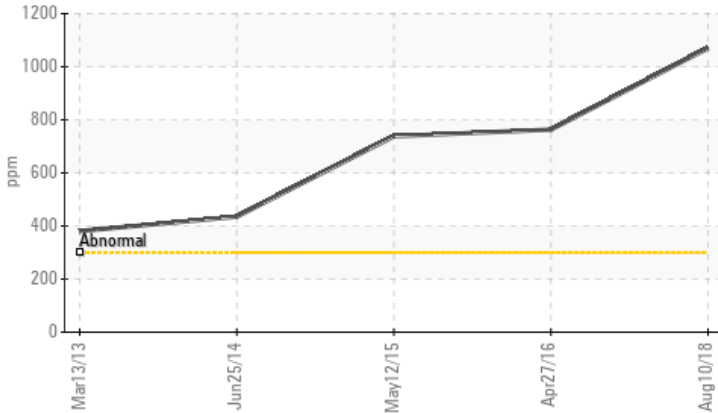
DIRT



Machine Id
CHW-036 MAIN BEARING
Component
Grease
Fluid
MOBIL MOBILITH SHC PM 220 (--- GAL)

COMPONENT CONDITION SUMMARY

▲ Silicon (ppm)



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
	▲ 1070	▲ 763	▲ 738

Customer Id: MITCAL
Sample No.: MHI000166
Lab Number: 04651714
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

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 indicating ingress of seal material. The AN level is acceptable for this fluid.

view report



12 May 2015 Diag: Doug Bogart

DIRT



No corrective action is recommended at this time. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The AN level is acceptable for this fluid.

view report



25 Jun 2014 Diag: Doug Bogart

DIRT



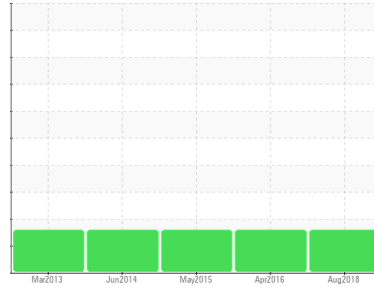
No corrective action is recommended at this time. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
CHW-036 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		MHI000166	MHI004829	MHI12228913
Sample Date	Client Info		10 Aug 2018	27 Apr 2016	12 May 2015
Machine Age	hrs	Client Info	0	23570	0
Grease Age	hrs	Client Info	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	357	192	106	
Iron	ppm	ASTM D5185m	>30000	687	354	75
Chromium	ppm	ASTM D5185m	>150	12	7	0
Nickel	ppm	ASTM D5185m		10	0	3
Titanium	ppm	ASTM D5185m		<1	2	0
Silver	ppm	ASTM D5185m		1	1	0
Aluminum	ppm	ASTM D5185m		1	3	0
Lead	ppm	ASTM D5185m		0	4	0
Copper	ppm	ASTM D5185m		6	9	3
Tin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m		0	19	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		2	1	<1

ADDITIVES

	method	limit/base	current	history1	history2	
Boron	ppm	ASTM D5185m		16	10	2
Barium	ppm	ASTM D5185m		6	4	0
Molybdenum	ppm	ASTM D5185m		1	0	1
Manganese	ppm	ASTM D5185m		5	4	3
Magnesium	ppm	ASTM D5185m		5	6	3
Calcium	ppm	ASTM D5185m		48	55	40
Phosphorus	ppm	ASTM D5185m		2284	2135	1972
Zinc	ppm	ASTM D5185m		3798	3377	3124
Sulfur	ppm	ASTM D5185m		8897	8760	8728

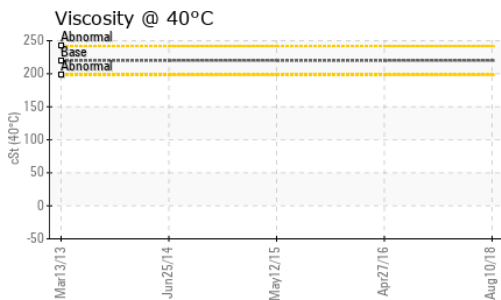
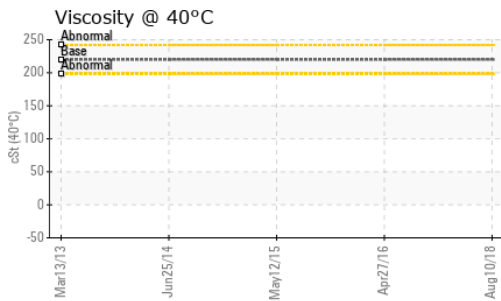
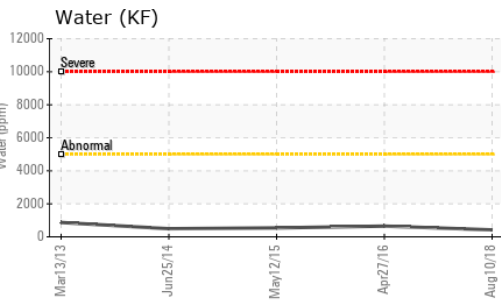
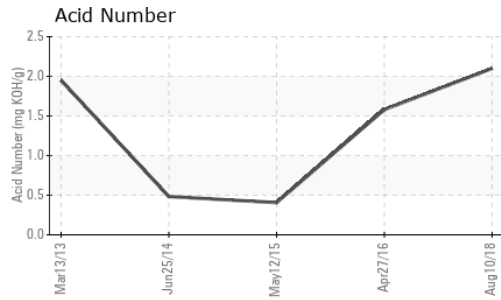
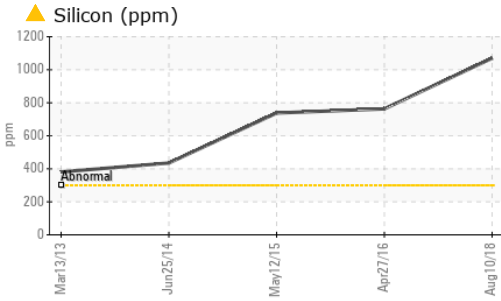
CONTAMINANTS

	method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m	>+300	▲ 1070	▲ 763	▲ 738
Sodium	ppm	ASTM D5185m		7	10	14
Potassium	ppm	ASTM D5185m	>20	61	0	0
Water	%	ASTM D6304	>0.5	0.042	0.065	0.054
ppm Water	ppm	ASTM D6304	>5000	420	650	540

FLUID DEGRADATION

	method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045		2.10	1.58	0.406

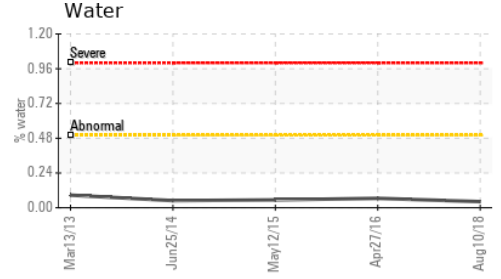
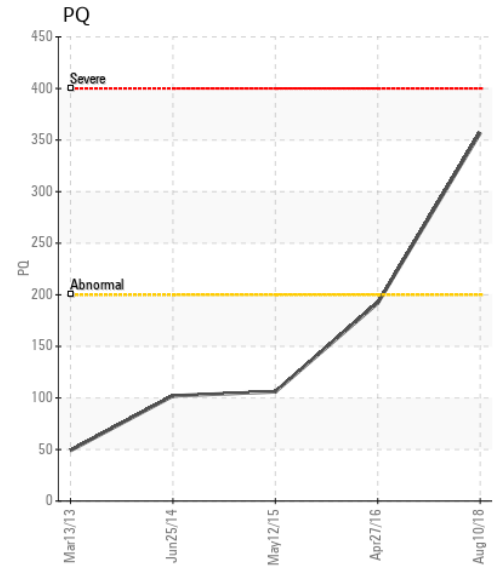
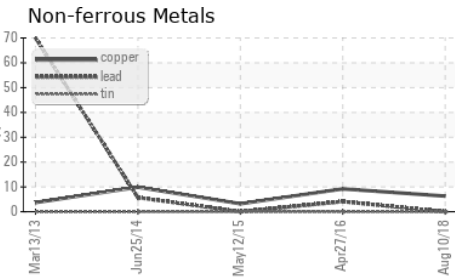
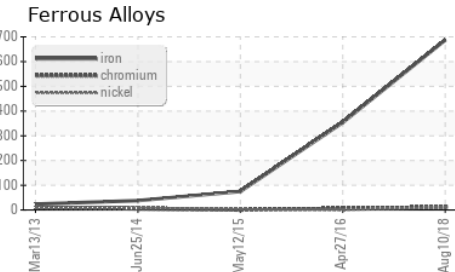
OIL ANALYSIS REPORT



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	no image
Bottom				no image	no image

GRAPHS



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MHI000166 **Received** : 15 Feb 2019
Lab Number : 04651714 **Diagnosed** : 24 Feb 2019
Unique Number : 8498214 **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)

T:
F: