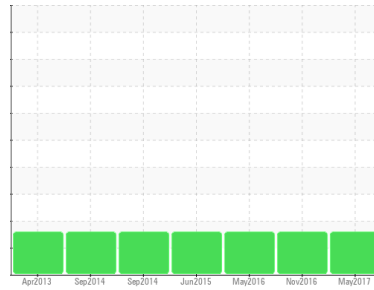


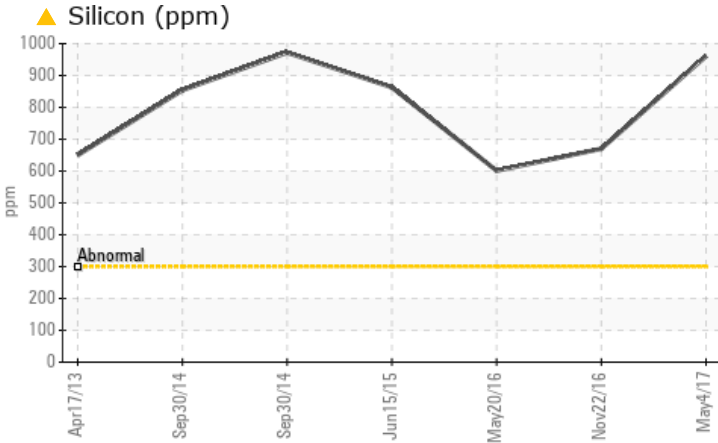
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
CHW-084 - MAIN BEARING
Component
Grease
Fluid
SHC GREASE (--- 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
	▲ 961	▲ 670	▲ 601

Customer Id: MITCAL
Sample No.: MHI009942
Lab Number: 04269220
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

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



20 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



15 Jun 2015 Diag: Jonathan Hester

DIRT



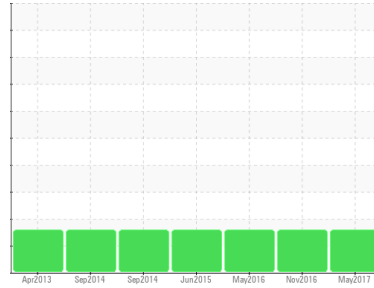
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
CHW-084 - MAIN BEARING

Component
Grease
Fluid
SHC GREASE (--- 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		MHI009942	MHII2276948	MHI005377
Sample Date	Client Info		04 May 2017	22 Nov 2016	20 May 2016
Machine Age	hrs	Client Info	0	0	23515
Grease Age	hrs	Client Info	0	0	0
Grease Serviced	Client Info		N/A	N/A	Not Changd
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL

WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		155	138	16.0
Iron	ppm	ASTM D5185m >30000	361	189	189
Chromium	ppm	ASTM D5185m >150	4	3	3
Nickel	ppm	ASTM D5185m	4	15	3
Titanium	ppm	ASTM D5185m	0	<1	0
Silver	ppm	ASTM D5185m	0	<1	2
Aluminum	ppm	ASTM D5185m	4	0	2
Lead	ppm	ASTM D5185m	4	0	0
Copper	ppm	ASTM D5185m	4	12	3
Tin	ppm	ASTM D5185m	0	20	2
Antimony	ppm	ASTM D5185m	0	0	0
Vanadium	ppm	ASTM D5185m	0	0	0
Cadmium	ppm	ASTM D5185m	0	1	<1

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	2	14	0
Barium	ppm	ASTM D5185m	0	9	<1
Molybdenum	ppm	ASTM D5185m	0	0	0
Manganese	ppm	ASTM D5185m	0	3	1
Magnesium	ppm	ASTM D5185m	0	9	<1
Calcium	ppm	ASTM D5185m	31	88	4
Phosphorus	ppm	ASTM D5185m	1097	879	597
Zinc	ppm	ASTM D5185m	2163	1777	1312
Sulfur	ppm	ASTM D5185m	5692	4009	3685

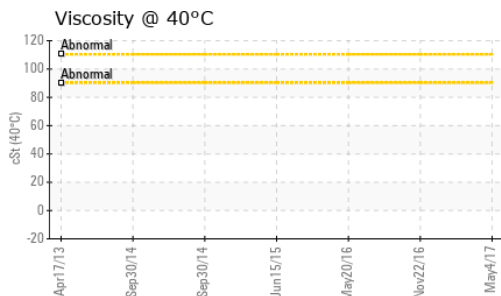
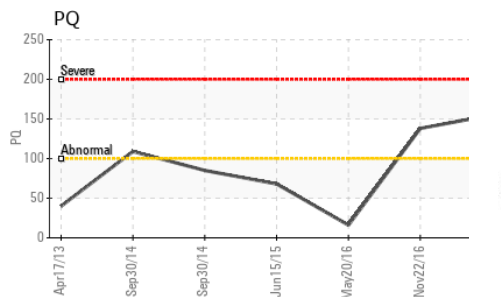
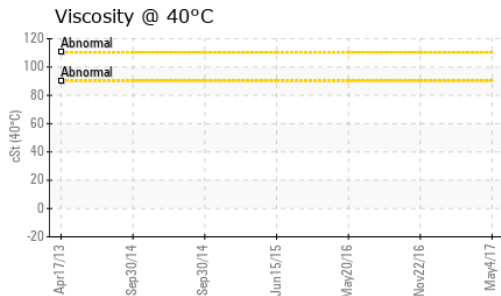
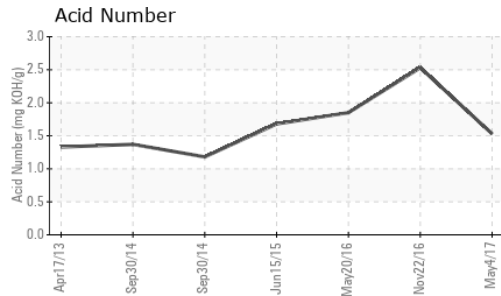
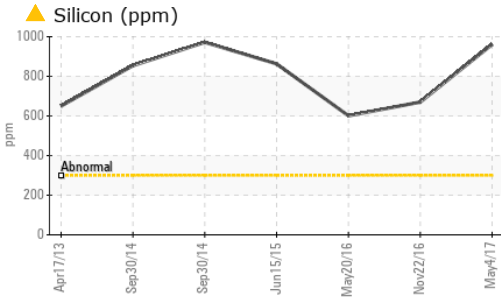
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+300	▲ 961	▲ 670	▲ 601
Sodium	ppm	ASTM D5185m	0	16	1
Potassium	ppm	ASTM D5185m >20	0	0	<1
Water	%	ASTM D6304 >0.5	0.056	0.024	0.156
ppm Water	ppm	ASTM D6304 >5000	560	240	1560

FLUID DEGRADATION

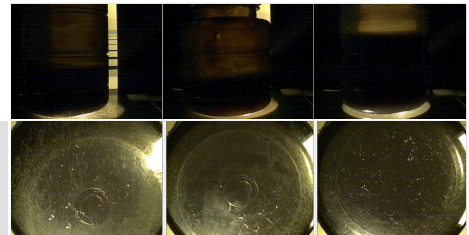
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.53	2.53	1.85

OIL ANALYSIS REPORT

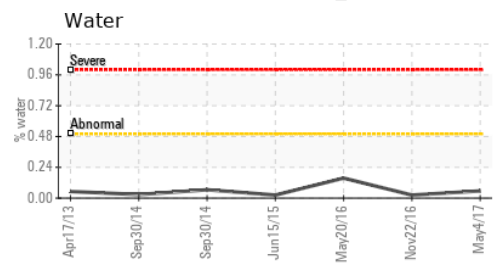
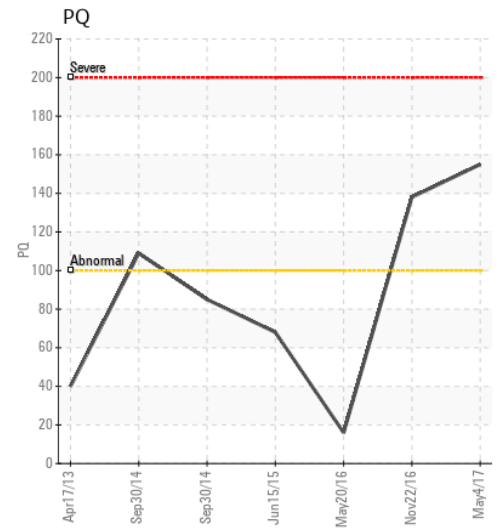
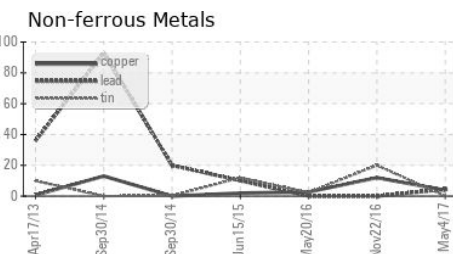
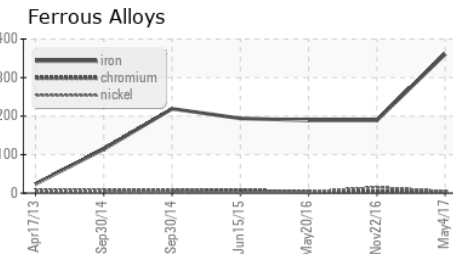


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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. : MH1009942 **Received** : 25 Jul 2017
Lab Number : 04269220 **Diagnosed** : 28 Jul 2017
Unique Number : 7872686 **Diagnostician** : Doug Bogart
Test Package : IND 2 (Additional Tests: KF, PQ)

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 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)