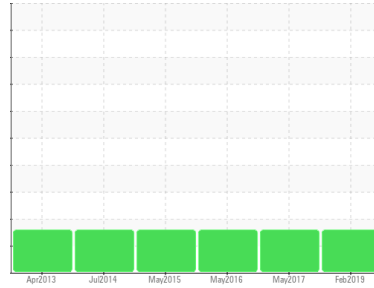


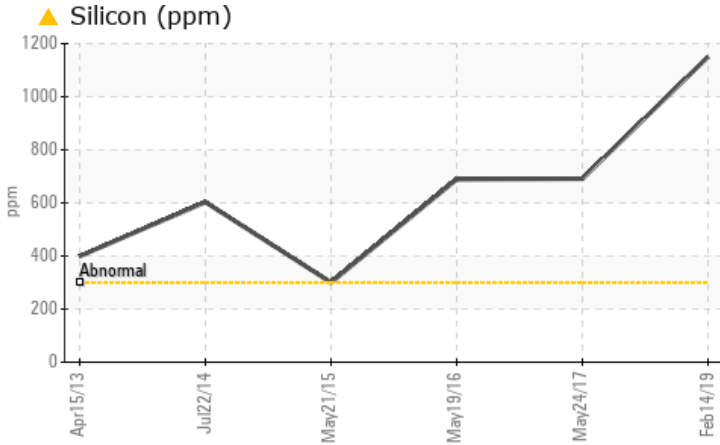
PROBLEM SUMMARY

Sample Rating Trend



Machine Id
CHW-022
Component
Main Grease
Fluid
NOT GIVEN (--- 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
	▲ 1150	▲ 691	▲ 689

Customer Id: MITCAL
Sample No.: MHII2259058
Lab Number: 04651651
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

24 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



19 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



21 May 2015 Diag: Jonathan Hester

DIRT



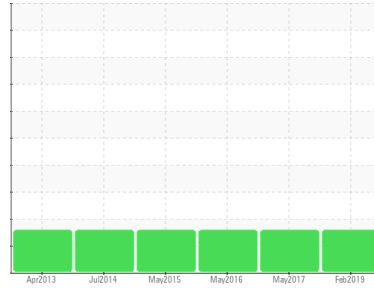
No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal. The AN level is acceptable for this fluid.

view report



OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
CHW-022
Component
Main Grease
Fluid
NOT GIVEN (--- 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		MHII2259058	MHII2276845	MHI005836
Sample Date	Client Info		14 Feb 2019	24 May 2017	19 May 2016
Machine Age	hrs	Client Info	0	0	22748
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	>200	137	87	34.0
Iron	ppm	ASTM D5185m	>30000	249	137
Chromium	ppm	ASTM D5185m	>150	3	1
Nickel	ppm	ASTM D5185m		0	0
Titanium	ppm	ASTM D5185m		<1	0
Silver	ppm	ASTM D5185m		<1	0
Aluminum	ppm	ASTM D5185m		4	0
Lead	ppm	ASTM D5185m		1	0
Copper	ppm	ASTM D5185m		14	14
Tin	ppm	ASTM D5185m		0	2
Antimony	ppm	ASTM D5185m		0	0
Vanadium	ppm	ASTM D5185m		0	0
Cadmium	ppm	ASTM D5185m		0	0

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		13	27
Barium	ppm	ASTM D5185m		0	0
Molybdenum	ppm	ASTM D5185m		<1	0
Manganese	ppm	ASTM D5185m		2	1
Magnesium	ppm	ASTM D5185m		0	0
Calcium	ppm	ASTM D5185m		51	96
Phosphorus	ppm	ASTM D5185m		2378	1938
Zinc	ppm	ASTM D5185m		3758	2699
Sulfur	ppm	ASTM D5185m		9686	7735

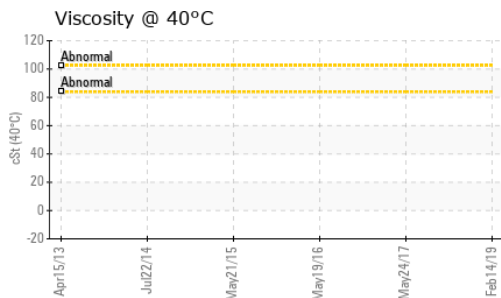
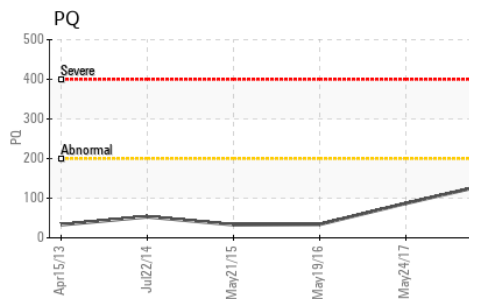
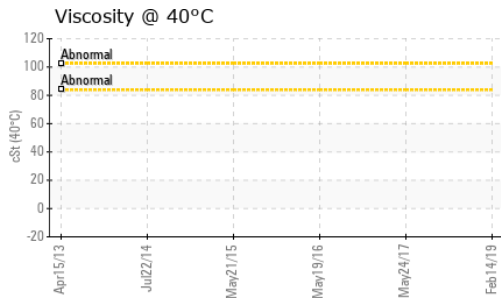
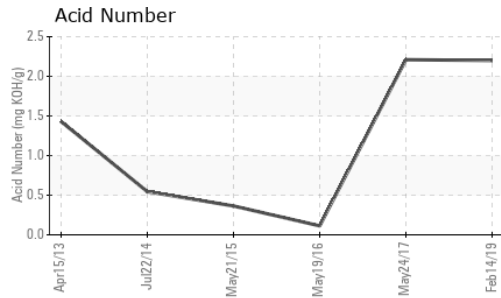
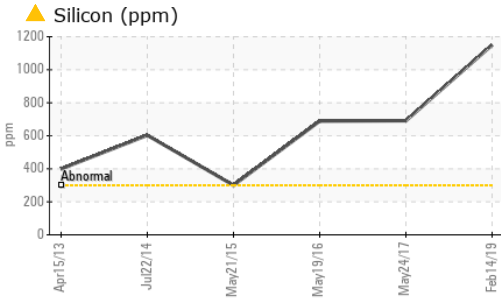
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+300	▲ 1150	▲ 691
Sodium	ppm	ASTM D5185m		18	7
Potassium	ppm	ASTM D5185m	>20	0	1
Water	%	ASTM D6304	>0.5	0.103	0.107
ppm Water	ppm	ASTM D6304	>5000	1030	1070

FLUID DEGRADATION

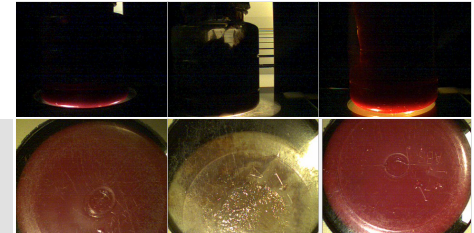
	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		2.20	2.21

OIL ANALYSIS REPORT

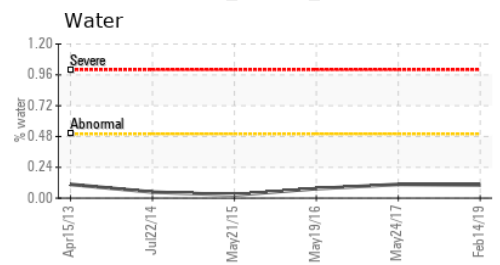
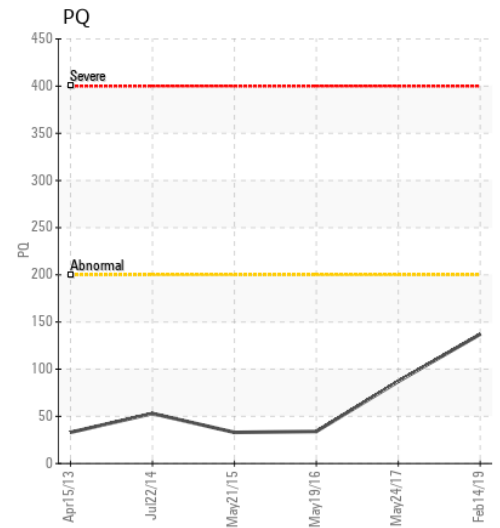
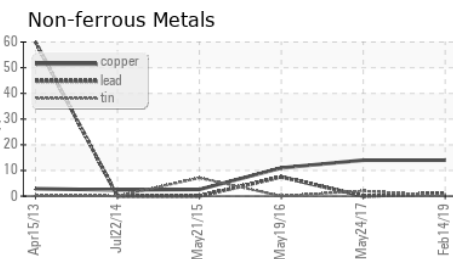
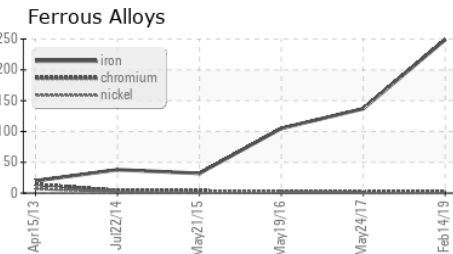


VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	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. : MHII2259058 **Received** : 15 Feb 2019
Lab Number : 04651651 **Diagnosed** : 24 Feb 2019
Unique Number : 8498151 **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: