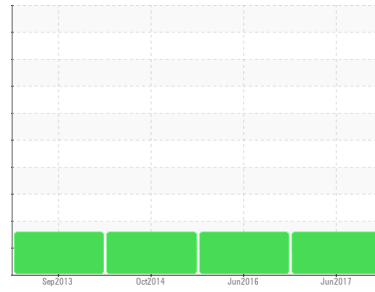


OIL ANALYSIS REPORT

Sample Rating Trend



DIRT



Machine Id
CHW-082 - 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		MHII2276811	MHII2276889	WCI2229051
Sample Date	Client Info		19 Jun 2017	16 Jun 2016	01 Oct 2014
Machine Age	hrs	Client Info	0	0	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		122	90.0	114
Iron	ppm	ASTM D5185m >30000	236	244	180
Chromium	ppm	ASTM D5185m >150	2	4	11
Nickel	ppm	ASTM D5185m	2	8	3
Titanium	ppm	ASTM D5185m	0	0	1
Silver	ppm	ASTM D5185m	0	<1	4
Aluminum	ppm	ASTM D5185m	<1	2	21
Lead	ppm	ASTM D5185m	0	6	10
Copper	ppm	ASTM D5185m	0	<1	2
Tin	ppm	ASTM D5185m	0	14	0
Antimony	ppm	ASTM D5185m	0	26	51
Vanadium	ppm	ASTM D5185m	0	0	2
Cadmium	ppm	ASTM D5185m	0	2	2

ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	33	5	5
Barium	ppm	ASTM D5185m	0	0	26
Molybdenum	ppm	ASTM D5185m	0	0	21
Manganese	ppm	ASTM D5185m	0	2	0
Magnesium	ppm	ASTM D5185m	0	9	43
Calcium	ppm	ASTM D5185m	82	18	45
Phosphorus	ppm	ASTM D5185m	1024	1237	1180
Zinc	ppm	ASTM D5185m	1941	2409	2320
Sulfur	ppm	ASTM D5185m	5011	5854	6020

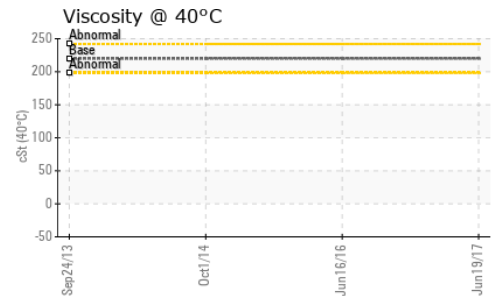
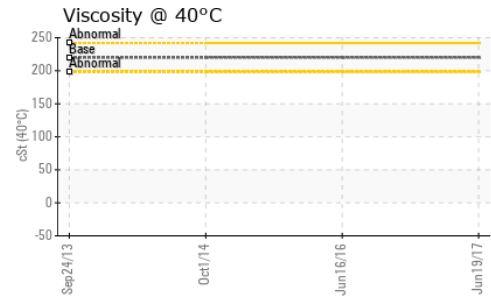
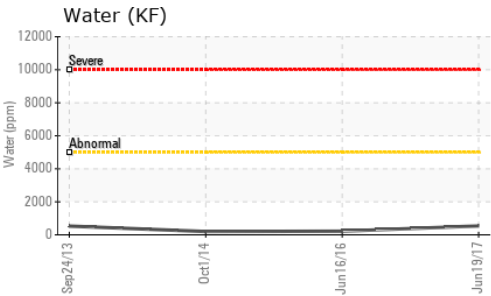
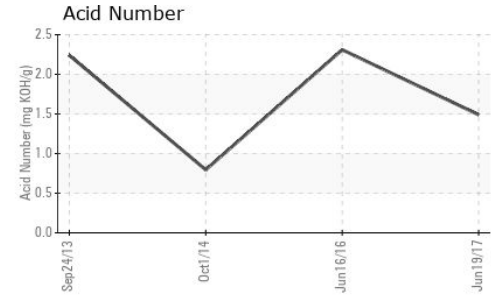
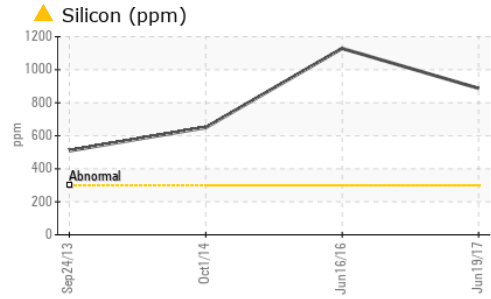
CONTAMINANTS

	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >+300	▲ 887	▲ 1129	▲ 650
Sodium	ppm	ASTM D5185m	0	6	13
Potassium	ppm	ASTM D5185m >20	0	36	0
Water	%	ASTM D6304 >0.5	0.054	0.022	0.020
ppm Water	ppm	ASTM D6304 >5000	540	220	200

FLUID DEGRADATION

	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045	1.49	2.31	0.795

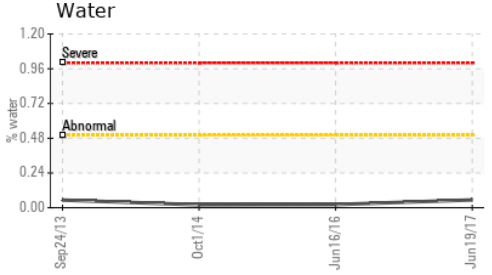
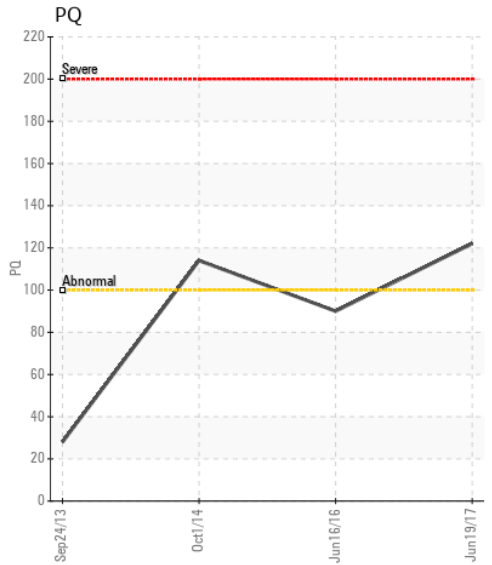
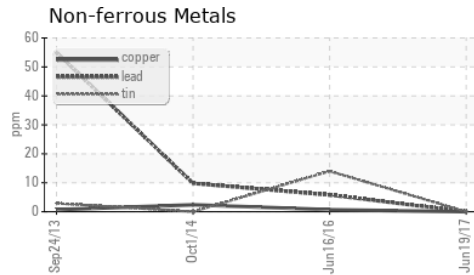
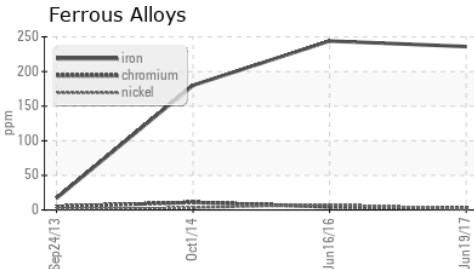
OIL ANALYSIS REPORT



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
Bottom					no image

GRAPHS



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : MHII2276811 **Received** : 25 Jul 2017
Lab Number : 04269283 **Tested** : 28 Jul 2017
Unique Number : 7872749 **Diagnosed** : 28 Jul 2017 - 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)