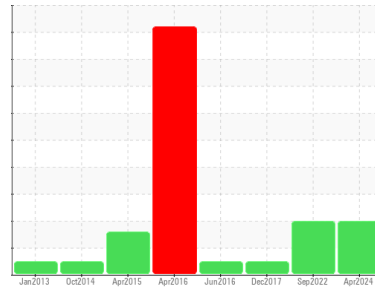




# OIL ANALYSIS REPORT

Sample Rating Trend



**WEAR**



Machine Id

**CHW-001**

Component

**Hydraulic System**

Fluid

**MOBIL DTE 10 EXCEL 32 (--- GAL)**

## DIAGNOSIS

### ▲ Recommendation

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### ▲ Wear

The iron level is abnormal. All other component wear rates are normal.

### ▲ Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil.

### Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

## SAMPLE INFORMATION

	method	limit/base	current	history1	history2
Sample Number	Client Info		<b>WC0925984</b>	WC0778708	MHI158722
Sample Date	Client Info		<b>16 Apr 2024</b>	07 Sep 2022	14 Dec 2017
Machine Age	hrs	Client Info	<b>0</b>	0	4392
Oil Age	hrs	Client Info	<b>0</b>	0	4392
Oil Changed	Client Info		<b>N/A</b>	N/A	N/A
Sample Status			<b>ABNORMAL</b>	ABNORMAL	NORMAL

## WEAR METALS

	method	limit/base	current	history1	history2
PQ	ASTM D8184		<b>28</b>	11	---
Iron	ppm	ASTM D5185m >20	<b>▲ 39</b>	15	2
Chromium	ppm	ASTM D5185m >20	<b>&lt;1</b>	<1	<1
Nickel	ppm	ASTM D5185m >20	<b>0</b>	0	0
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m >20	<b>0</b>	<1	0
Lead	ppm	ASTM D5185m >20	<b>&lt;1</b>	2	1
Copper	ppm	ASTM D5185m >20	<b>1</b>	2	2
Tin	ppm	ASTM D5185m >20	<b>0</b>	<1	<1
Antimony	ppm	ASTM D5185m	<b>---</b>	---	0
Vanadium	ppm	ASTM D5185m	<b>0</b>	0	0
Cadmium	ppm	ASTM D5185m	<b>0</b>	0	0

## ADDITIVES

	method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m	<b>0</b>	0	<1
Barium	ppm	ASTM D5185m	<b>0</b>	0	0
Molybdenum	ppm	ASTM D5185m	<b>0</b>	0	0
Manganese	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Magnesium	ppm	ASTM D5185m	<b>0</b>	0	0
Calcium	ppm	ASTM D5185m 120	<b>101</b>	99	111
Phosphorus	ppm	ASTM D5185m 475	<b>316</b>	435	481
Zinc	ppm	ASTM D5185m	<b>14</b>	13	21
Sulfur	ppm	ASTM D5185m 1275	<b>1253</b>	1532	1377

## CONTAMINANTS

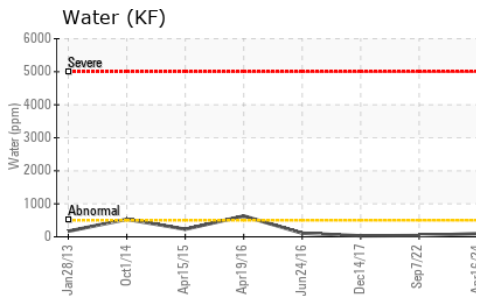
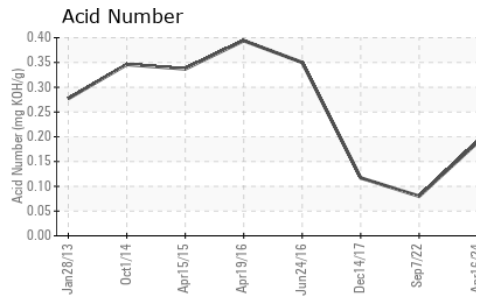
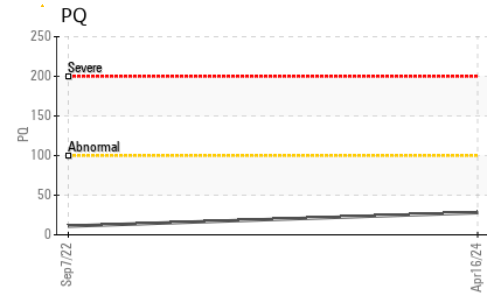
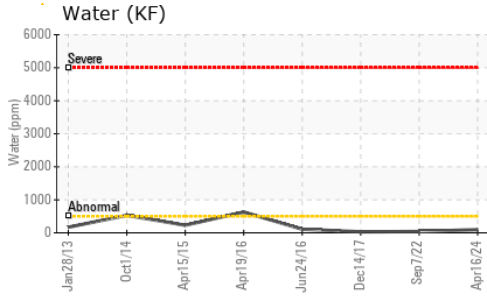
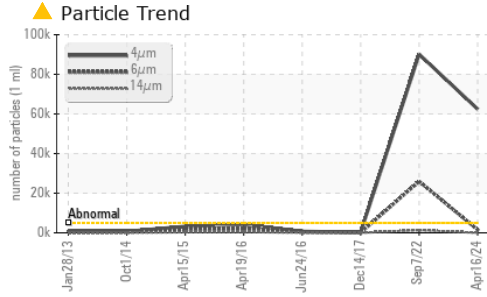
	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m >15	<b>13</b>	3	<1
Sodium	ppm	ASTM D5185m	<b>3</b>	3	3
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	3
Water	%	ASTM D6304 >0.05	<b>0.009</b>	0.003	0.003
ppm Water	ppm	ASTM D6304 >500	<b>97</b>	39.0	30

## FLUID CLEANLINESS

	method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647	>5000	<b>▲ 62446</b>	▲ 90126	251
Particles >6µm	ASTM D7647	>1300	<b>● 1540</b>	▲ 25967	70
Particles >14µm	ASTM D7647	>160	<b>17</b>	▲ 1315	8
Particles >21µm	ASTM D7647	>40	<b>4</b>	▲ 259	2
Particles >38µm	ASTM D7647	>10	<b>0</b>	3	0
Particles >71µm	ASTM D7647	>3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>▲ 23/18/11</b>	▲ 24/22/18	15/13/10



# OIL ANALYSIS REPORT

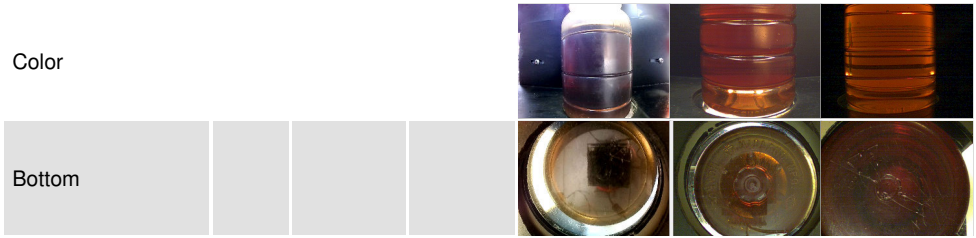


FLUID DEGRADATION		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		<b>0.189</b>	0.08	0.117

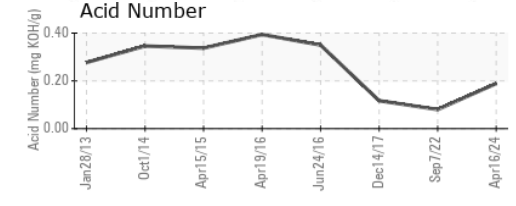
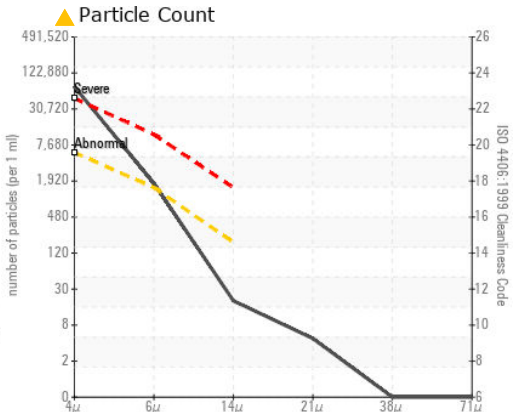
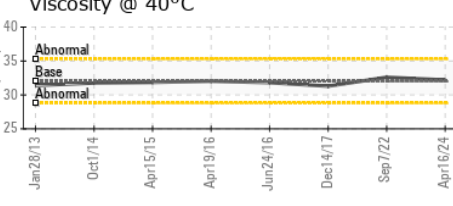
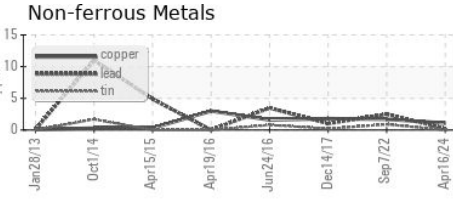
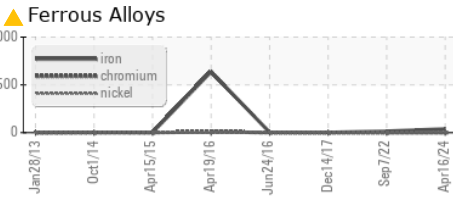
VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Precipitate	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Silt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Debris	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	<b>NONE</b>	NONE	NONE
Appearance	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Odor	scalar	*Visual	NORML	<b>NORML</b>	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	<b>NEG</b>	NEG	NEG
Free Water	scalar	*Visual		<b>NEG</b>	NEG	NEG

FLUID PROPERTIES		method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	<b>32.2</b>	32.6	31.29

## SAMPLE IMAGES



## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0925984  
**Lab Number** : **06160368**  
**Unique Number** : 10995791  
**Test Package** : IND 2 ( Additional Tests: KF, PQ )  
**Received** : 25 Apr 2024  
**Tested** : 26 Apr 2024  
**Diagnosed** : 27 Apr 2024 - Don Baldrige

**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)