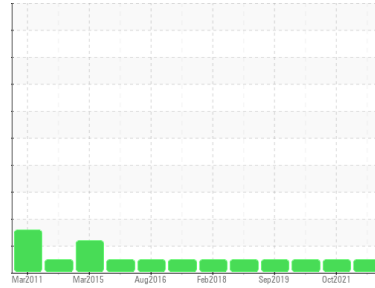


# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**A502**  
Component  
**Hydraulic System**  
Fluid  
**MOBIL DTE 10 EXCEL 32 (43 GAL)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable.

#### 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>MHI025117</b>	MHI017014	MHI018416
Sample Date	Client Info	<b>04 Oct 2022</b>	06 Oct 2021	13 Oct 2020
Machine Age	hrs	<b>0</b>	0	0
Oil Age	hrs	<b>85795</b>	79921	73996
Oil Changed	Client Info	<b>Not Changed</b>	Not Changed	N/A
Sample Status		<b>NORMAL</b>	NORMAL	NORMAL

### WEAR METALS

method	limit/base	current	history1	history2	
Iron	ppm	ASTM D5185m >50	<b>12</b>	8	7
Chromium	ppm	ASTM D5185m	<b>&lt;1</b>	<1	0
Nickel	ppm	ASTM D5185m	<b>10</b>	4	3
Titanium	ppm	ASTM D5185m	<b>0</b>	0	0
Silver	ppm	ASTM D5185m	<b>0</b>	0	0
Aluminum	ppm	ASTM D5185m	<b>&lt;1</b>	0	0
Lead	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Copper	ppm	ASTM D5185m	<b>&lt;1</b>	<1	<1
Tin	ppm	ASTM D5185m	<b>0</b>	<1	0
Antimony	ppm	ASTM D5185m	<b>---</b>	0	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>&lt;1</b>	2	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>	0	0
Magnesium	ppm	ASTM D5185m	<b>0</b>	<1	0
Calcium	ppm	ASTM D5185m 120	<b>112</b>	119	106
Phosphorus	ppm	ASTM D5185m 475	<b>445</b>	454	413
Zinc	ppm	ASTM D5185m	<b>1</b>	25	19
Sulfur	ppm	ASTM D5185m 1275	<b>1981</b>	1790	1545

### CONTAMINANTS

method	limit/base	current	history1	history2	
Silicon	ppm	ASTM D5185m >+30	<b>&lt;1</b>	<1	1
Sodium	ppm	ASTM D5185m	<b>2</b>	2	2
Potassium	ppm	ASTM D5185m >20	<b>0</b>	0	0
Water	%	ASTM D6304 >0.1	<b>0.008</b>	0.003	0.003
ppm Water	ppm	ASTM D6304 >1000	<b>82.5</b>	37.3	37.5

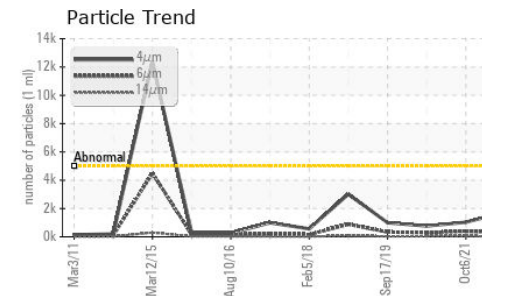
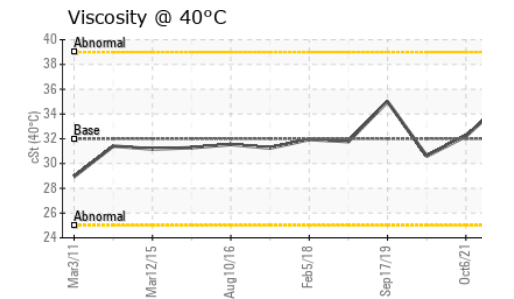
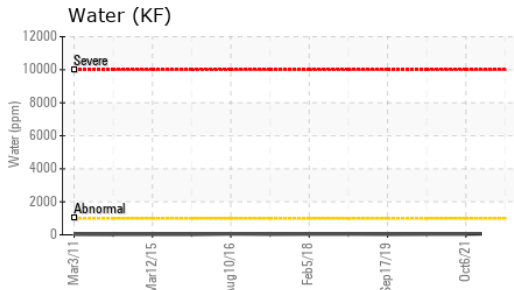
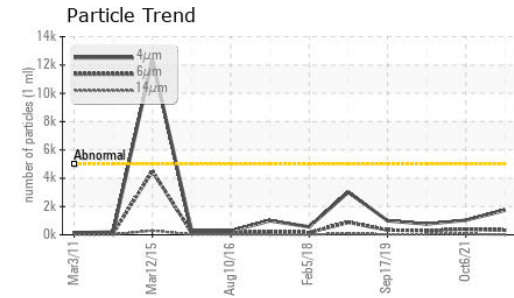
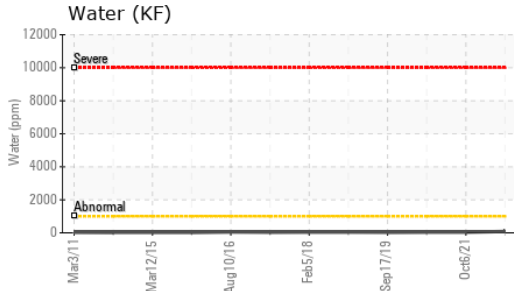
### FLUID CLEANLINESS

method	limit/base	current	history1	history2
Particles >4µm	ASTM D7647 >5000	<b>1732</b>	1033	764
Particles >6µm	ASTM D7647 >1300	<b>326</b>	398	287
Particles >14µm	ASTM D7647 >160	<b>24</b>	49	42
Particles >21µm	ASTM D7647 >40	<b>8</b>	13	12
Particles >38µm	ASTM D7647 >10	<b>0</b>	0	2
Particles >71µm	ASTM D7647 >3	<b>0</b>	0	0
Oil Cleanliness	ISO 4406 (c) >19/17/14	<b>18/16/12</b>	17/16/13	17/15/13

### FLUID DEGRADATION

method	limit/base	current	history1	history2	
Acid Number (AN)	mg KOH/g	ASTM D8045	<b>0.17</b>	0.085	0.060

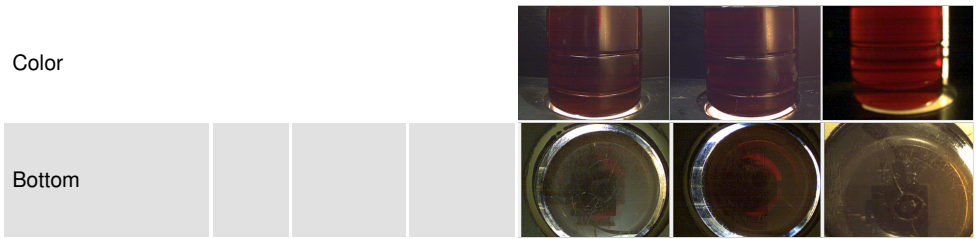
# OIL ANALYSIS REPORT



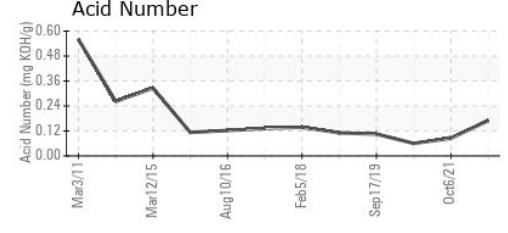
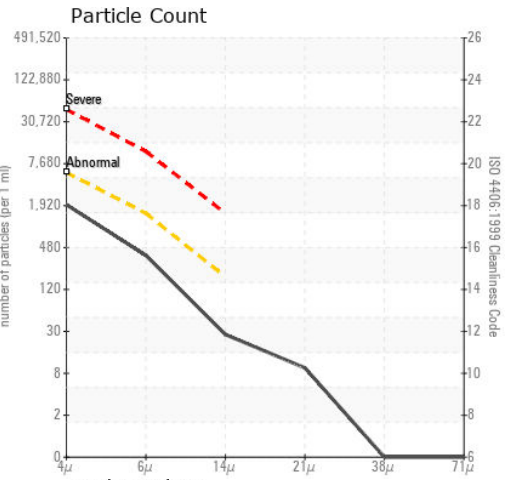
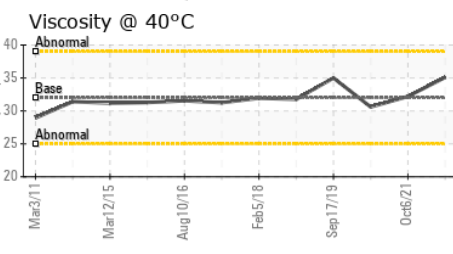
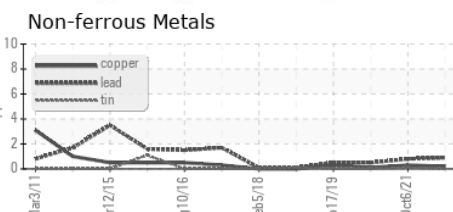
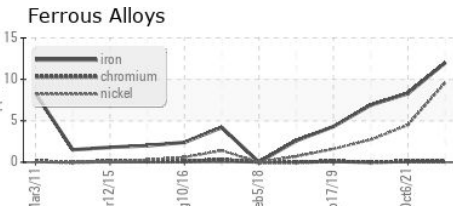
VISUAL	method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	NONE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG

FLUID PROPERTIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	35.1	32.2

SAMPLE IMAGES	method	limit/base	current	history1	history2
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## GRAPHS



**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : MH1025117 **Received** : 07 Nov 2022  
**Lab Number** : 05687142 **Diagnosed** : 09 Nov 2022  
**Unique Number** : 10206714 **Diagnostician** : Angela Borella  
**Test Package** : IND 2 ( Additional Tests: KF )

**DIAMOND WTG - DILLON**  
P.O. BOX 880  
DESERT HOT SPRINGS, CA  
US 92240  
Contact: DANIEL BOYD  
daniel.boyd@diamondwtg.com  
T: (760)329-7171  
F: (760)329-7122

Certificate L2367  
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)