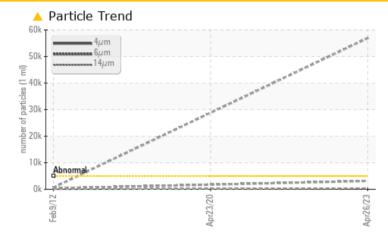




### Machine Id G-01 Component Hydraulic System Fluid MOBIL DTE 10 EXCEL 32 (45 GAL)

### COMPONENT CONDITION SUMMARY



### RECOMMENDATION

Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).

### PROBLEMATIC TEST RESULTS

THODELMAND TEST	HEODEIO				
Sample Status			ABNORMAL	ABNORMAL	NORMAL
Particles >4µm	ASTM D7647	>5000	<b>6947</b>		629
Particles >6µm	ASTM D7647	>1300	<b>A</b> 3143		343
Particles >14µm	ASTM D7647	>160	<u> </u>		58
Particles >21µm	ASTM D7647	>40	<mark>  8</mark> 6		19
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>A</b> 23/19/16		16/16/13

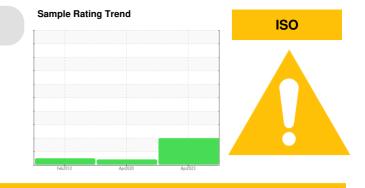
Customer Id: MITWHI Sample No.: MHI021540 Lab Number: 06016384 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Jonathan Hester +1 919-379-4092 x4092 jhester@wearcheckusa.com

*To change component or sample information:* Customer Service +1 1-800-237-1369 <u>customerservice@wearcheck.com</u>



RECOMMENDE	DED ACTIONS					
Action	Status	Date	Done By	Description		
Change Filter			?	Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).		
Resample			?	Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).		

### HISTORICAL DIAGNOSIS



# 23 Apr 2020 Diag: Doug Bogart

Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s). We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.



### 09 Feb 2012 Diag: Doug Bogart

#### NORMAL



Resample at the next service interval to monitor.All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The condition of oil is suitable for further service.





# **OIL ANALYSIS REPORT**



ISO

## Machine Id G-01 Component Hydraulic System MOBIL DTE 10 EXCEL 32 (45 GAL)

### DIAGNOSIS

### A Recommendation

Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).

### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates 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 INFORM	<b>IATION</b>	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI021540	MHI022681	RP107445
Sample Date		Client Info		26 Apr 2023	23 Apr 2020	09 Feb 2012
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	109268	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	11	18	4
Chromium	ppm	ASTM D5185m	>20	<1	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	0	1	2
Copper	ppm	ASTM D5185m	>20	<1	2	4
Tin	ppm	ASTM D5185m	>20	0	<1	0
Antimony	ppm	ASTM D5185m			0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		<1	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		<1	2	0
Calcium	ppm	ASTM D5185m	120	108	130	116
Phosphorus	ppm	ASTM D5185m	475	410	453	658
Zinc	ppm	ASTM D5185m		0	29	49
Sulfur	ppm	ASTM D5185m	1275	1403	1282	1528
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	1	<1	0
Sodium	ppm	ASTM D5185m		<1	2	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304	>0.1	0.011	0.003	0.006
ppm Water	ppm	ASTM D6304	>1000	116	39.3	60
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>6</b> 56947		629
Particles >6µm		ASTM D7647	>1300	<u> </u>		343
Particles >14µm		ASTM D7647	>160	<b>A</b> 360		58
Particles >21µm		ASTM D7647	>40	<u> </u>		19
Particles >38µm		ASTM D7647	>10	2		3
Particles >71µm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 23/19/16		16/16/13
FLUID DEGRADA		method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.089	0.060	0.227
24.14) Dov: 1	3 9		_			

Report Id: MITWHI [WUSCAR] 06016384 (Generated: 11/29/2023 19:34:14) Rev: 1

Contact/Location: WESLEY CAMPBELL - MITWHI



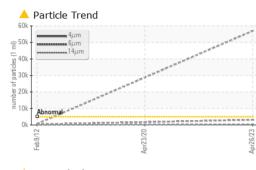
# **OIL ANALYSIS REPORT**

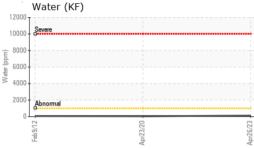
Feb 9/1

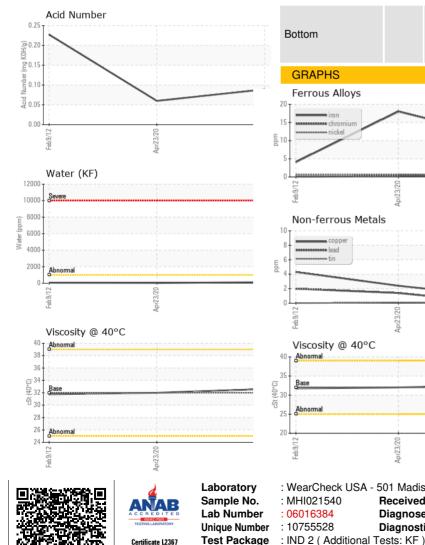
Abnormal

Abnor

Feb9/12







VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	NONE	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	🔺 MODER	VLITE
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.1	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPER	TIES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	32.6	32.0	31.76
SAMPLE IMAGE	S	method	limit/base	current	history1	history2
Color						no image
Bottom						no image
GRAPHS						
Ferrous Alloys				Particle Count		0.020
iron	~		491,520	1		T <sup>26</sup>
5 - chromium			122,880	-		-24
			30,720	Severe		+22
			30,720	1		+22
			7,680	Abnormal		-20
Feb 9/12	Apr23/20		Apr26/23 (per 1 ml)			-18
			Ap Jes (p			
Non-ferrous Meta	als		Apri26/23.		~	-16
copper			jo ja 120	-		-14
6						+12
1			30			-12
2-				1		10

