

Machine Id **F-06** Component Hydraulic System Fluid MOBIL DTE 10 EXCEL 32 (45 GAL)

COMPONENT CONDITION SUMMARY

No relevant graphs to display

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). We were unable to perform a particle count due to a high concentration of particles present in this sample.

PROBLEMATIC TEST RESULTS							
Sample Status				ABNORMAL	NORMAL	ABNORMAL	
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE	

Customer Id: MITWHI Sample No.: MHI021630 Lab Number: 06016392 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	D ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	Re-sample to oil if cleanline
Resample			?	Re-sample to oil if cleanline
Alert			?	We were una

to verify the actual oil condition. Replace filter elements. Change ness level does not improve after replacing the filter(s).

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able to perform a particle count due to a high concentration of particles present in this sample.

HISTORICAL DIAGNOSIS



03 Sep 2021 Diag: Jonathan Hester

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



view report

21 Jul 2021 Diag: Jonathan Hester

Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not

improve after replacing the filter(s).All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid.

16 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 advise that you inspect for the source(s) of metal. We were unable to perform a particle count due to a high concentration of particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. Light concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.





Sample Rating Trend

VIS DEBRIS



Machine Id **F-06** 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). We were unable to perform a particle count due to a high concentration of particles present in this sample.

Wear

All component wear rates are normal.

Contamination

Moderate concentration of visible dirt/debris present in the oil.

Fluid Condition

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

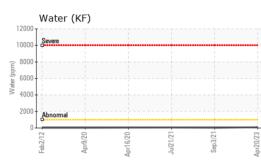
						Ŏ
SAMPLE INFORM		Feb2012	Apr2020 Apr2020		Apr2023	history2
Sample Number		Client Info		MHI021630	MHI017361	MHI019382
Sample Date		Client Info		20 Apr 2023	03 Sep 2021	21 Jul 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	NORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
ron	ppm	ASTM D5185m	>50	2	1	1
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	<1	<1	0
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
_ead	ppm	ASTM D5185m	>20	0	<1	<1
Copper	ppm	ASTM D5185m	>20	<1	0	0
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m			<1	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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Vagnesium	ppm	ASTM D5185m		<1	0	0
Calcium	ppm	ASTM D5185m	120	110	120	129
Phosphorus	ppm	ASTM D5185m	475	425	472	516
Zinc	ppm	ASTM D5185m		<1	0	0
Sulfur	ppm	ASTM D5185m	1275	1469	1156	1227
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	<1
Potassium	ppm	ASTM D5185m	>20	<1	<1	0
Water	%	ASTM D6304		0.008	0.003	0.005
opm Water	ppm	ASTM D6304	>1000	86	36.8	56.1
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000		3510	6 5105
Particles >6µm		ASTM D7647	>1300		719	1 510
Particles >14µm		ASTM D7647	>160		25	▲ 166
Particles >21µm		ASTM D7647			7	39
Particles >38µm		ASTM D7647	>10		0	1
Particles >71µm		ASTM D7647			0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14		19/17/12	▲ 20/18/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.093	0.121	0.102
11.17) Dov: 1			<u>^</u>	ntaat/Lagatian.		

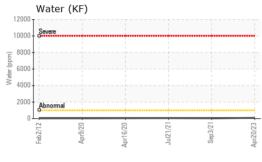
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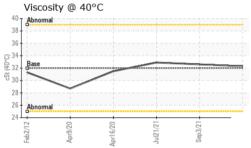
Contact/Location: WESLEY CAMPBELL - MITWHI



OIL ANALYSIS REPORT

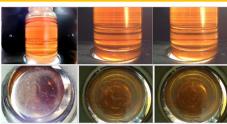




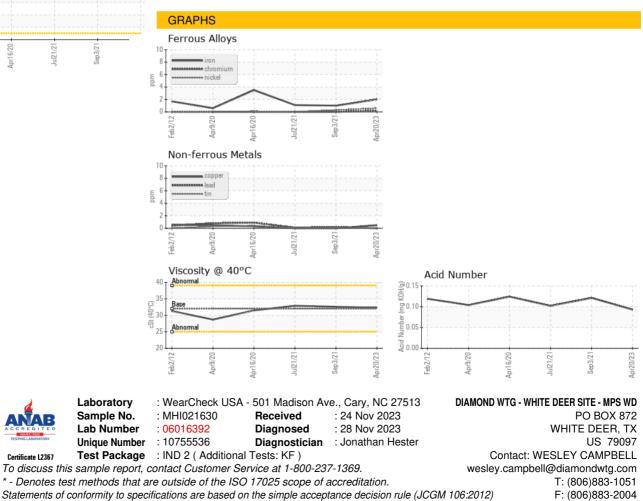


VISUAL		method	limit/base	current	history1	history2
White Metal	scalar	*Visual	NONE	NONE	LIGHT	LIGHT
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	A MODER	NONE	NONE
Sand/Dirt	scalar	*Visual	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 PROPERT	IES	method	limit/base	current	history1	history2
Visc @ 40°C	cSt	ASTM D445	32	32.3	32.6	32.9
SAMPLE IMAGES		method	limit/base	current	history1	history2

Color



Bottom



Certificate L2367

Contact/Location: WESLEY CAMPBELL - MITWHI