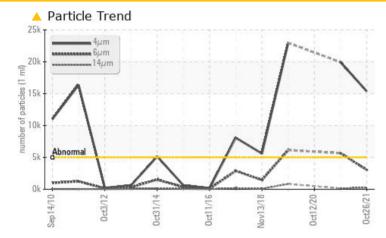




Machine Id **C-13** Component **Hydraulic System** Fluid **MOBIL DTE 10 EXCEL 32 (--- GAL)**

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								
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647 >5	5000 🔺 15367	1 9944					
Particles >6µm	ASTM D7647 >1	300 🔺 3041	<u> </u>					
Particles >14µm	ASTM D7647 >1	60 A 247	139					
Particles >21µm	ASTM D7647 >4	0 68	7					
Oil Cleanliness	ISO 4406 (c) >1	9/17/14 21/19/15	21/20/14					

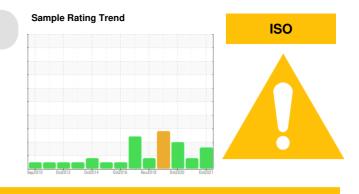
Customer Id: MITODO Sample No.: MHI019313 Lab Number: 05400216 Test Package: IND 2



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>



RECOMMENDED	ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	Re-sample to ver oil if cleanliness I
Resample			?	Re-sample to ver oil if cleanliness I

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

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



17 Nov 2020 Diag: Don Baldridge

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 high amount of particulates present in the oil. The AN level is acceptable for this fluid.



12 Oct 2020 Diag: Don Baldridge



We recommend you service the filters on this component. Resample at the next service interval to monitor. 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. There is a trace of moisture present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

30 Sep 2019 Diag: Jonathan Hester





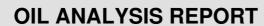
Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is above the recommended limit.



view report

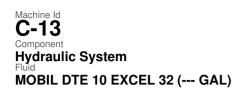






Sample Rating Trend

ISO



DIAGNOSIS

DIAMOND WTG

ENGINEERING & SERVICES, INC. y of 🙏 MIT

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.

		Sep2010	Oct2012 Oct2014		0 0ct2021	
SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI019313	MHI026473	MHI025920
Sample Date		Client Info		26 Oct 2021	17 Nov 2020	12 Oct 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		88864	83330	82135
Oil Changed		Client Info		Not Changd	N/A	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	5	8	6
Chromium	ppm	ASTM D5185m		0	<1	0
Nickel	ppm	ASTM D5185m		0	2	<1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		<1	0	<1
Lead	ppm	ASTM D5185m		<1	2	1
Copper	ppm	ASTM D5185m		2	<1	1
Tin	ppm	ASTM D5185m		0	0	0
Antimony	ppm	ASTM D5185m		0	0	0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		<1	0	1
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	1	<1
Calcium	ppm	ASTM D5185m	120	106	99	105
Phosphorus	ppm	ASTM D5185m	475	413	423	399
Zinc	ppm	ASTM D5185m		60	100	66
Sulfur	ppm	ASTM D5185m	1275	1212	1980	1118
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	0	2	3
Sodium	ppm	ASTM D5185m		1	<1	4
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	0.011	0.007	▲ 0.127
ppm Water	ppm	ASTM D6304	>1000	114.5	74.3	1270
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	15367	19944	
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 5663	
Particles >14µm		ASTM D7647	>160	<u> </u>	139	
Particles >21µm		ASTM D7647	>40	<mark>人</mark> 68	7	
Particles >38µm		ASTM D7647	>10	3	0	
Particles >71µm		ASTM D7647	>3	0	0	
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 21/19/15	1 /20/14	
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.602	0.094	0.926

Acid Number (AN)

0.602 0.094 Contact/Location: GARY GRANT - MITODO

Report Id: MITODO [WUSCAR] 05400216 (Generated: 10/01/2023 01:23:47) Rev: 1

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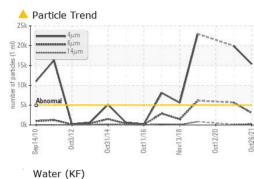


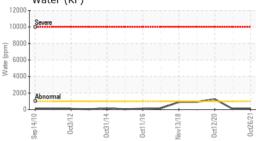
Acid Number

3.00

OIL ANALYSIS REPORT

method







limit/base

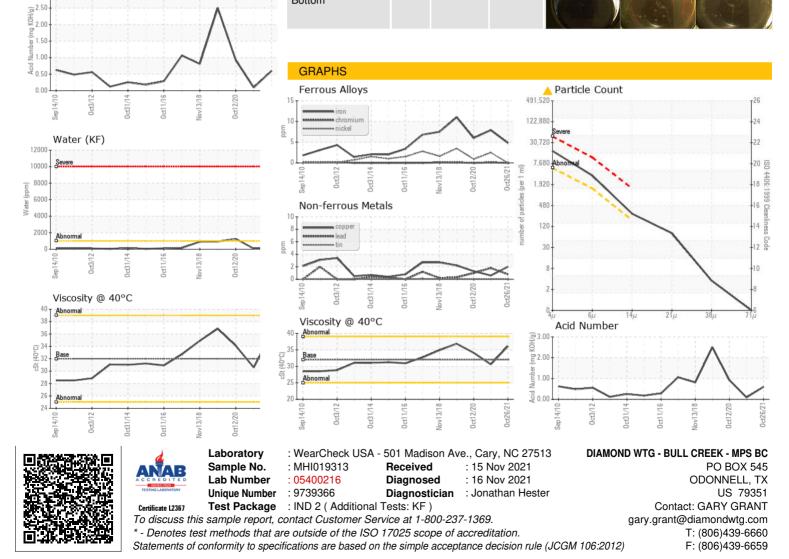
current

history1

history2

Bottom

VISUAL



Contact/Location: GARY GRANT - MITODO