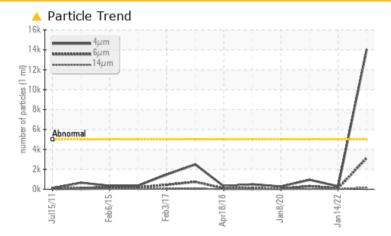
## **PROBLEM SUMMARY**



### Machine Id **C301** Component **Hydraulic System** Fluid **MOBIL DTE 10 EXCEL 32 (43 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). Resample at the next service interval to monitor.

PROBLEMATIC TEST R	ESULTS				
Sample Status			ABNORMAL	NORMAL	NORMAL
Particles >4µm	ASTM D7647	>5000	<u> </u>	296	953
Particles >6µm	ASTM D7647	>1300	<b>A</b> 3135	88	312
Particles >14µm	ASTM D7647	>160	<u> </u>	22	33
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>A</b> 21/19/15	15/14/12	17/15/12

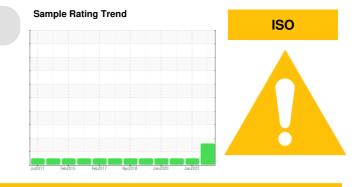
Customer Id: DIADIL Sample No.: MHI026474 Lab Number: 06009631 Test Package: IND 2



To manage this report scan the QR code

*To discuss the diagnosis or test data:* Don Baldridge +1 <u>don.b505@comcast.net</u>

*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 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



### 14 Jan 2022 Diag: Doug Bogart

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



view report

### 14 Dec 2020 Diag: Jonathan Hester

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

### 08 Jan 2020 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 AN level is acceptable for this fluid. The condition of the oil is suitable for further service.







### **OIL ANALYSIS REPORT**

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

### DIAGNOSIS

### 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). Resample at the next service interval to monitor.

### Wear

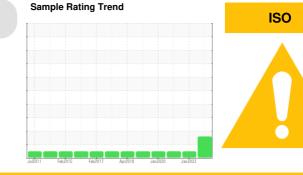
All component wear rates are normal.

### 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 acceptable for the time in service.



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026474	MHI025249	MHI017464
Sample Date		Client Info		20 Jan 2023	14 Jan 2022	14 Dec 2020
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	83920	77516
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	11	6	4
Chromium	ppm	ASTM D5185m	>20	0	0	0
Nickel	ppm	ASTM D5185m	>20	6	4	3
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	2	2	1
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	0
Antimony	ppm	ASTM D5185m			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		0	2	1
Barium	ppm	ASTM D5185m		7	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		0	0	0
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m	120	100	117	108
Phosphorus	ppm	ASTM D5185m	475	411	492	414
Zinc	ppm	ASTM D5185m		23	21	22
Sulfur	ppm	ASTM D5185m	1275	1568	1545	1389
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	0	<1	<1
Sodium	ppm	ASTM D5185m		0	2	2
Potassium	ppm	ASTM D5185m	>20	<1	0	0
Water	%	ASTM D6304	>0.1	0.007	0.005	0.003
ppm Water	ppm	ASTM D6304	>1000	72.4	56.5	38.3
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	<b>14050</b>	296	953
Particles >6µm		ASTM D7647	>1300	<u> </u>	88	312
Particles >14µm		ASTM D7647	>160	<b>A</b> 174	22	33
Particles >21µm		ASTM D7647	>40	40	10	9
Particles >38µm		ASTM D7647	>10	1	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<b>A</b> 21/19/15	15/14/12	17/15/12
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	ma K∩⊔/a			0.09	0.18	0.069

Acid Number (AN)

mg KOH/g ASTM D8045

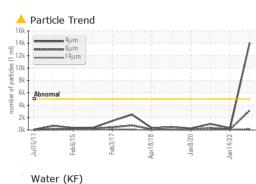
0.09 0.18 0.069

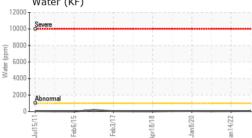
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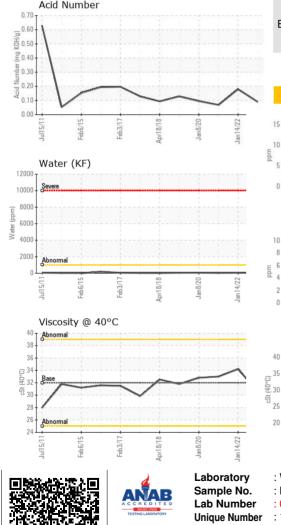
Contact/Location: DANIEL BOYD - DIADIL



# **OIL ANALYSIS REPORT**







#### VISUAL method limit/base history1 history2 current NONE NONE White Metal \*Visual NONE NONE scalar Yellow Metal NONE NONE NONE NONE scalar \*Visual Precipitate \*Visual NONE NONE NONE NONE scalar Silt scalar \*Visual NONE NONE NONE NONE NONE NONE Debris \*Visual NONE NONE scalar NONE Sand/Dirt scalar \*Visual NONE NONE NONE NORML Appearance NORML NORML NORML scalar \*Visua NORML NORML Odor scalar \*Visual NORML NORML \*Visual **Emulsified Water** scalar >0.1 NEG NEG NEG Free Water scalar \*Visual NEG NEG NEG **FLUID PROPERTIES** method limit/base curren history history2 34.2 Visc @ 40°C cSt ASTM D445 32 30.6 33.0 SAMPLE IMAGES limit/base history2 method history1 current

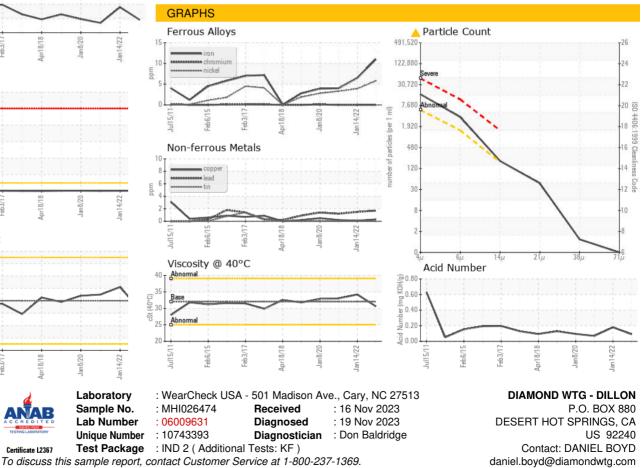
Color



Bottom

\* - 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)



Contact/Location: DANIEL BOYD - DIADIL

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