

# **PROBLEM SUMMARY**

Sample Rating Trend

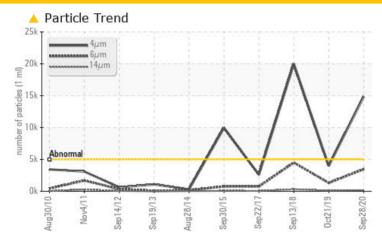


Machine Id **D-16** 

Component **Hydraulic System** 

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	>5000	<b>14830</b>	3988	<u>^</u> 20002				
Particles >6µm	ASTM D7647	>1300	<b>4</b> 3469	<b>▲</b> 1312	<b>△</b> 4502				
Particles >14µm	ASTM D7647	>160	<b>173</b>	114	<b>△</b> 315				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<b>21/19/15</b>	▲ 19/18/14	A 22/19/15				

Customer Id: MITODO Sample No.: MHI025820 Lab Number: 05099567 Test Package: IND 2

To manage this report scan the QR code

To discuss the diagnosis or test data:

Don Baldridge +1 don.b505@comcast.net

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

RECOMMENDED ACTIONS							
Action	Status	Date	Done By	Description			
Change Filter	MISSED	Oct 12 2021	?	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	MISSED	Oct 12 2021	?	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

#### 21 Oct 2019 Diag: Don Baldridge

ISO



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 silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid.

# view report

### 13 Sep 2018 Diag: Jonathan Hester

ISO



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.

# view report

## 22 Sep 2017 Diag: Don Baldridge

NORMAL



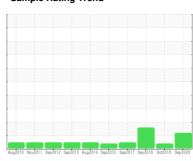
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable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





# **OIL ANALYSIS REPORT**

**Sample Rating Trend** 



ISO



Machine Id
D-16
Component

**Hydraulic System** 

MOBIL DTE 10 EXCEL 32 (--- 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).

#### Wear

All component wear rates are normal.

### Contamination

There is a high amount of particulates present in the oil.

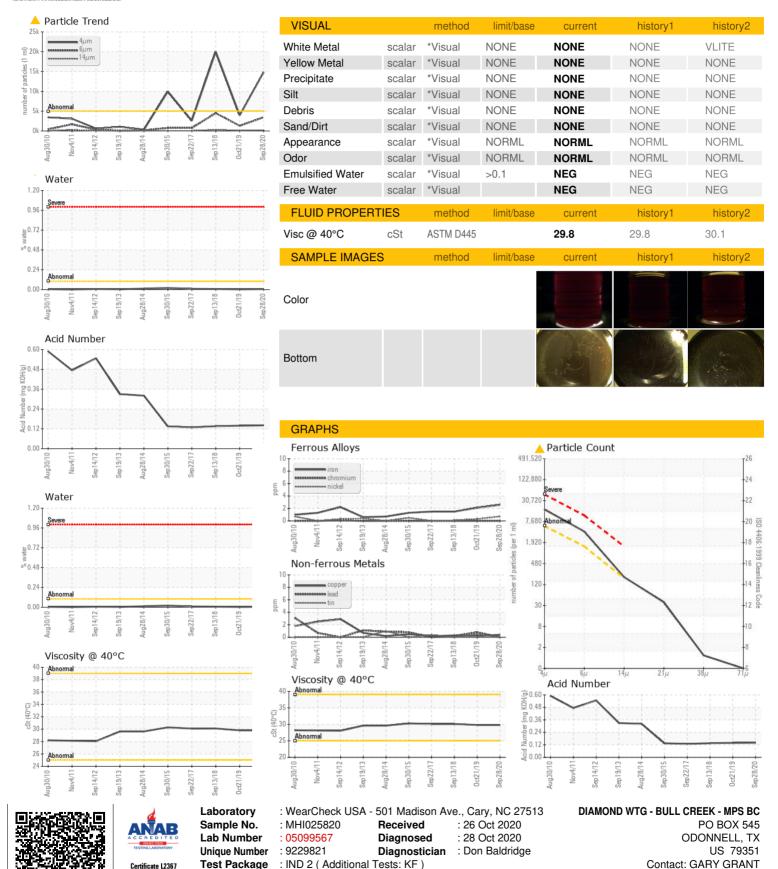
#### **Fluid Condition**

The AN level is acceptable for this fluid.

SAMPLE INFORM	ΙΔΤΙΩΝΙ	method	limit/base	214 Sep2015 Sep2017 Sep2018 Octi	history1	history2
	MATION		IIIIIIVDase			
Sample Number		Client Info		MHI025820	MHI018202	MHI022113
Sample Date		Client Info		28 Sep 2020	21 Oct 2019	13 Sep 2018
Machine Age	hrs	Client Info		0	0	67035
Oil Age	hrs	Client Info		82337	75174	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	3	2	2
Chromium	ppm	ASTM D5185m		0	0	0
Nickel	ppm	ASTM D5185m		<1	<1	<1
Titanium	ppm	ASTM D5185m		0	0	<1
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m		0	<1	<1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		0	<1	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	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		2	<1	<1
Calcium	ppm	ASTM D5185m		105	120	111
Phosphorus	ppm	ASTM D5185m		394	469	445
Zinc	ppm	ASTM D5185m		78	89	81
Sulfur	ppm	ASTM D5185m		1794	1139	1998
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	0	<1
Sodium	ppm	ASTM D5185m		3	2	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	0.006	0.003	0.007
ppm Water	ppm	ASTM D6304	>1000	61.2	36.0	70
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<b>△</b> 14830	3988	▲ 20002
Particles >6µm		ASTM D7647	>1300	<u>^</u> 3469	<u>▲</u> 1312	<u></u> 4502
Particles >14µm		ASTM D7647	>160	<u> </u>	114	<b>△</b> 315
Particles >21µm		ASTM D7647	>40	33	19	<b>△</b> 96
Particles >38μm		ASTM D7647	>10	1	1	4
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>21/19/15</u>	<u>19/18/14</u>	<u>22/19/15</u>
FLUID DEGRADA	TION	method	limit/base	current	history1	history2



## **OIL ANALYSIS REPORT**



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)

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