

PROBLEM SUMMARY

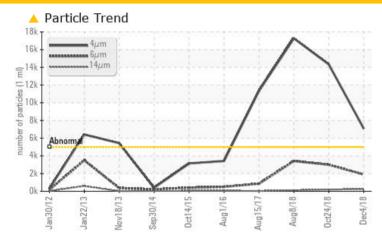
Sample Rating Trend

ISO

Machine Id **A-021 (S/N 32693)**

MOBIL DTE 10 EXCEL 46 (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									
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL				
Particles >4µm	ASTM D7647	>5000	^ 7076	▲ 14332	<u>▲</u> 17271				
Particles >6µm	ASTM D7647	>1300	1884	▲ 3003	△ 3419				
Particles >14μm	ASTM D7647	>160	238	<u></u> 198	114				
Particles >21μm	ASTM D7647	>40	<u> </u>	4 6	33				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/18/15	<u>\</u> 21/19/15	<u>^</u> 21/19/14				

Customer Id: MITELI Sample No.: MHI011598 Lab Number: 04632829 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 customerservice@wearcheck.com

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

24 Oct 2018 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 acceptable for this fluid. The condition of the oil is suitable for further service.



08 Aug 2018 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 high amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid.

view report

15 Aug 2017 Diag: Doug Bogart

ISO



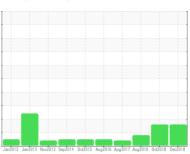
No corrective action is recommended at this time. Resample at the next service interval to monitor.All component wear rates are normal. There is a high amount of silt (particulates < 6 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id A-021 (S/N 32693)

Hydraulic System

MOBIL DTE 10 EXCEL 46 (45 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).

All component wear rates are normal.

Contamination

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

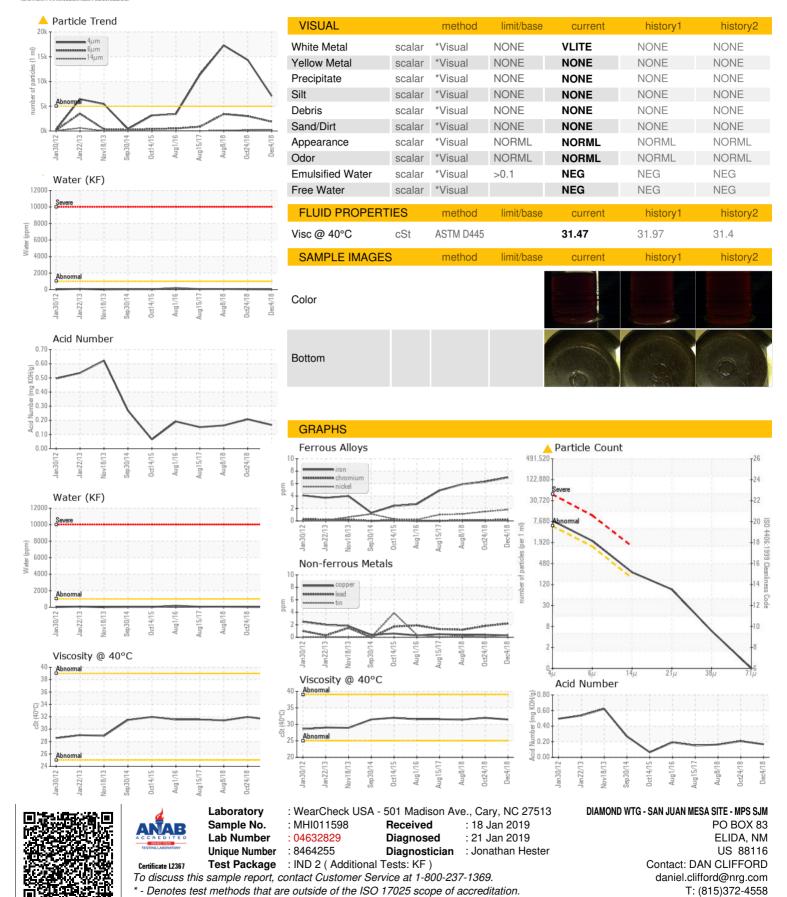
Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI011598	MHI009219	MHI020152
Sample Date		Client Info		04 Dec 2018	24 Oct 2018	08 Aug 2018
Machine Age	hrs	Client Info		0	0	94896
Oil Age	hrs	Client Info		0	0	32473
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	7	6	6
Chromium	ppm	ASTM D5185m		<1	<1	<1
Nickel	ppm	ASTM D5185m		2	2	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m		0	0	0
Lead	ppm	ASTM D5185m		2	2	1
Copper	ppm	ASTM D5185m		<1	<1	<1
Tin	ppm	ASTM D5185m		<1	0	<1
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		0	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		0	<1	<1
Calcium	ppm	ASTM D5185m		108	98	102
Phosphorus	ppm	ASTM D5185m		440	383	401
Zinc	ppm	ASTM D5185m		78	67	72
Sulfur	ppm	ASTM D5185m		1428	2098	1528
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	<1	<1	0
Sodium	ppm	ASTM D5185m		2	2	2
Potassium	ppm	ASTM D5185m	>20	0	<1	<1
Water	%	ASTM D6304	>0.1	0.002	0.004	0.007
ppm Water	ppm	ASTM D6304	>1000	20	40	70
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>5000	7076	▲ 14332	▲ 17271
Particles >6µm		ASTM D7647	>1300	<u> </u>	▲ 3003	△ 3419
Particles >14μm		ASTM D7647	>160	238	<u> </u>	114
Particles >21µm		ASTM D7647	>40	<u> </u>	4 6	33
Particles >38µm		ASTM D7647	>10	5	2	2
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>20/18/15</u>	<u>^</u> 21/19/15	<u>\$\text{\Delta}\$ 21/19/14</u>



OIL ANALYSIS REPORT



Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

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