

PROBLEM SUMMARY

Sample Rating Trend

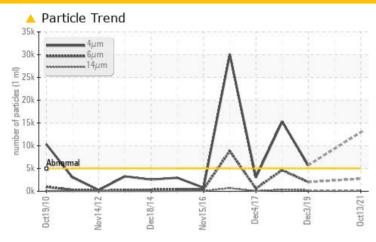
ISO

Machine Id A-26
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	<u> </u>		<u>▲</u> 5721				
Particles >6µm	ASTM D7647	>1300	2742		▲ 2022				
Particles >14µm	ASTM D7647	>160	<u>^</u> 203		<u>^</u> 237				
Particles >21µm	ASTM D7647	>40	<u> </u>		△ 70				
Oil Cleanliness	ISO 4406 (c)	>19/17/14	<u>^</u> 21/19/15		<u>\</u> 20/18/15				

Customer Id: MITODO Sample No.: MHI026085 Lab Number: 05379663 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@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

11 Dec 2020 Diag: Jonathan Hester

VIS DEBRIS



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. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid.



03 Dec 2019 Diag: Doug Bogart

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

view report

08 Nov 2018 Diag: Don Baldridge

ISO



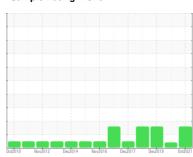
Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



Machine Id
A-26
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. The condition of the oil is suitable for further service.

		Oct2010	lov2012 Dec2014	Nov2016 Dec2017 Dec2019	0ct2021	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026085	MHI025181	MHI019808
Sample Date		Client Info		13 Oct 2021	11 Dec 2020	03 Dec 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		89483	83969	76827
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	1	9	4
Chromium	ppm	ASTM D5185m		0	<1	0
Nickel	ppm	ASTM D5185m		0	1	1
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		<1	<1	0
Aluminum	ppm	ASTM D5185m		0	0	<1
Lead	ppm	ASTM D5185m		0	<1	1
Copper	ppm	ASTM D5185m		2	2	<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		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		6	<1	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m	120	65	102	106
Phosphorus	ppm	ASTM D5185m	475	402	402	422
Zinc	ppm	ASTM D5185m		429	130	115
Sulfur	ppm	ASTM D5185m	1275	960	2066	2104
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	0	<1	<1
Sodium	ppm	ASTM D5185m		2	<1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304	>0.1	0.004	0.007	0.005
ppm Water	ppm	ASTM D6304	>1000	43.4	76.9	58.6
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u> </u>		▲ 5721
Particles >6µm		ASTM D7647	>1300	<u>2742</u>		▲ 2022
Particles >14μm		ASTM D7647	>160	<u>^</u> 203		<u> </u>
Particles >21μm		ASTM D7647	>40	<u> </u>		<u>▲</u> 70
Particles >38μm		ASTM D7647	>10	1		3
Particles >71μm		ASTM D7647	>3	0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>21/19/15</u>		<u>^</u> 20/18/15
FLUID DEGRADA	TION	method	limit/base	current	history1	history2

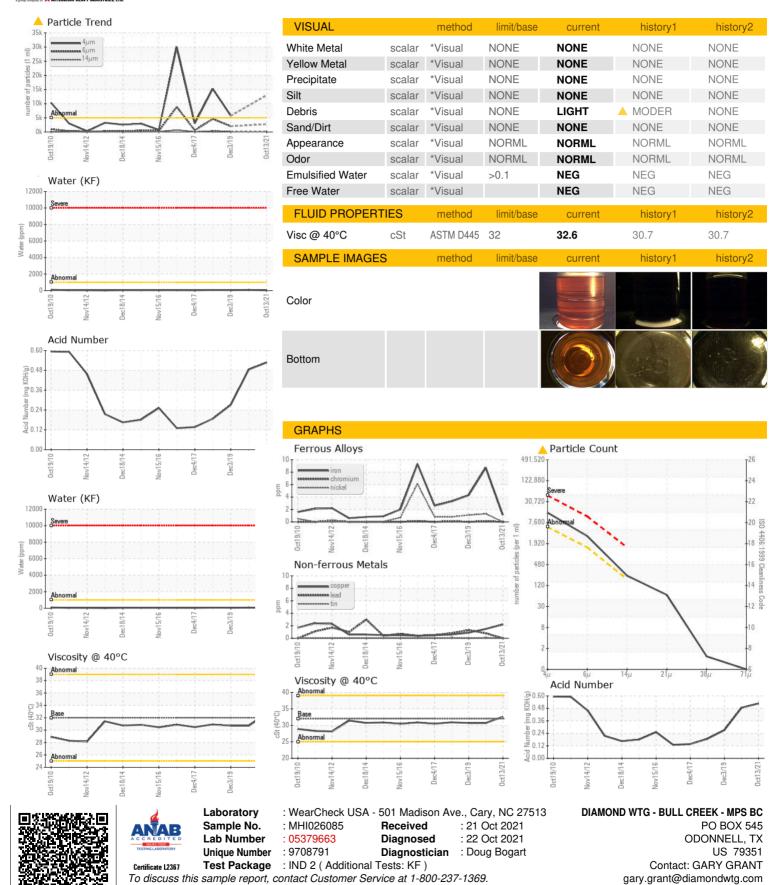
Acid Number (AN)

mg KOH/g ASTM D8045

0.527 0.485 0.271 Contact/Location: GARY GRANT - MITODO



OIL ANALYSIS REPORT



* - 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)

T: (806)439-6660

F: (806)439-6659