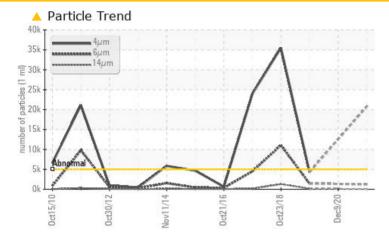
PROBLEM SUMMARY



Machine Id **A-01** 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 TES	ST RESULTS				
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL
Particles >4µm	ASTM D7647	>5000	<u> </u>		4310
Oil Cleanliness	ISO 4406 (c)	>19/17/14	22/17/13		▲ 19/18/14

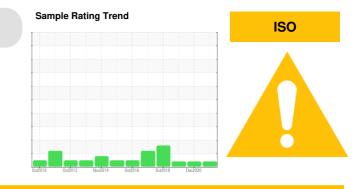
Customer Id: MITODO Sample No.: MHI017260 Lab Number: 05400234 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 <u>jhester@wearcheckusa.com</u>

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



RECOMMENDE	O ACTIONS			
Action	Status	Date	Done By	Description
Change Filter			?	Re-sample to volution oil if cleanlines
Resample			?	Re-sample to voil if cleanlines

ample to verify the actual oil condition. Replace filter elements. Change 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



09 Dec 2020 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). 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.



view report

19 Dec 2019 Diag: Doug Bogart



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.

23 Oct 2018 Diag: Don Baldridge



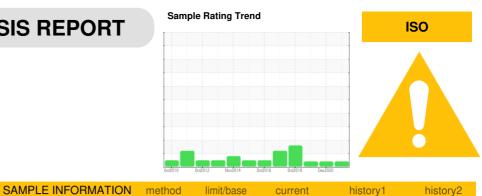
Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s).All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.







OIL ANALYSIS REPORT



Machine Id A-01 Component **Hydraulic System** MOBIL DTE 10 EXCEL 32 (--- GAL)

DIAGNOSIS

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 silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

		method	IIIII/Dase	current	HISTOLA	TIIStory2
Sample Number		Client Info		MHI017260	MHI025716	MHI019587
Sample Date		Client Info		02 Nov 2021	09 Dec 2020	19 Dec 2019
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		87436	82031	61056
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
			11 11 11			
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	1	4	3
Chromium	ppm	ASTM D5185m		0	<1	0
Nickel	ppm	ASTM D5185m		0	2	2
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		2	0	0
Aluminum	ppm	ASTM D5185m		<1	0	<1
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		<1	0	0
ADDITIVES		method	limit/base	ourrent	bictorut	history
			inniv base		history1	history2
Boron	ppm	ASTM D5185m		<1	0	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		5	0	0
Manganese	ppm	ASTM D5185m		0	<1	0
Magnesium	ppm	ASTM D5185m		0	1	0
Calcium	ppm	ASTM D5185m	120	73	101	108
Phosphorus	ppm	ASTM D5185m	475	388	402	413
Zinc	ppm	ASTM D5185m		426	109	113
Sulfur	ppm	ASTM D5185m	1275	1144	2153	2211
CONTAMINANTS	6	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	0	<1	0
Sodium	ppm	ASTM D5185m	2100	0	<1	2
Potassium	ppm	ASTM D5185m	>20	0	<1	0
Water	%	ASTM D6304		0.004	0.003	0.005
ppm Water	ppm	ASTM D6304		45.4	37.2	55.3
FLUID CLEANLIN	IESS	method	limit/base		history1	history2
Particles >4µm		ASTM D7647	>5000	<u> </u>		4310
Particles >6µm		ASTM D7647	>1300	1227		1426
Particles >14µm		ASTM D7647	>160	54		149
Particles >21µm		ASTM D7647	>40	14		34
Particles >38µm		ASTM D7647	>10	0		0
Particles >71µm		ASTM D7647		0		0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	A 22/17/13		▲ 19/18/14
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2
				0.402	0.212	
Acid Number (AN)	mg KOH/g	ASTM D8045			U.ZIZ	0.156

Report Id: MITODO [WUSCAR] 05400234 (Generated: 09/26/2023 00:10:17) Rev: 1

Contact/Location: GARY GRANT - MITODO



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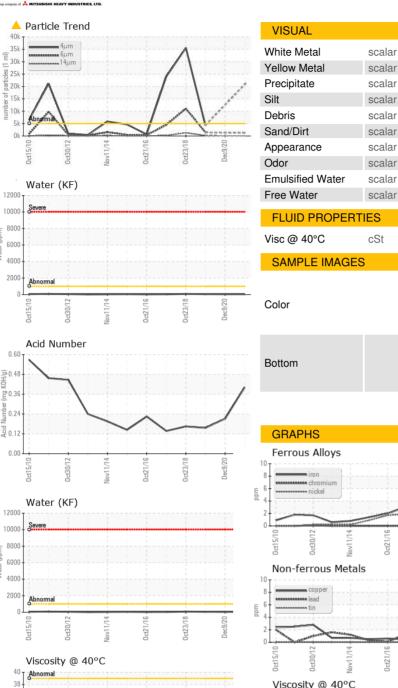
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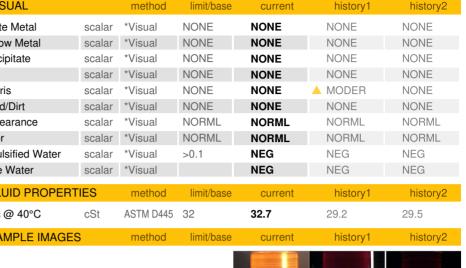
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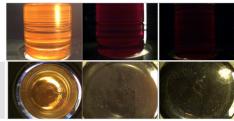
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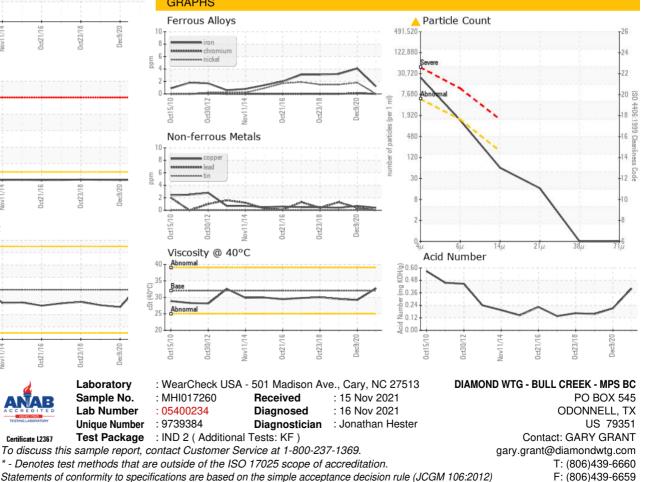
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OIL ANALYSIS REPORT









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

Contact/Location: GARY GRANT - MITODO