

PROBLEM SUMMARY

Sample Rating Trend

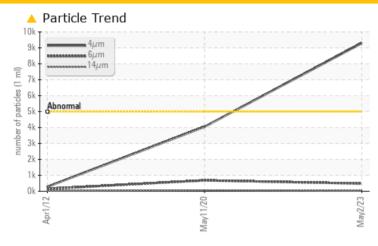


Machine Id
H-05
Component

Hydraulic System

MOBIL DTE 10 EXCEL 32 (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 T	PROBLEMATIC TEST RESULTS									
Sample Status			MARGINAL	NORMAL	NORMAL					
Particles >4µm	ASTM D7647	>5000	<u> </u>	4051	285					
Oil Cleanliness	ISO 4406 (c)	>19/17/14	20/16/12	19/17/13	15/14/12					

Customer Id: MITWHI Sample No.: MHI021614 Lab Number: 06016386 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

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 May 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.



01 Apr 2012 Diag: Doug Bogart

NORMAL



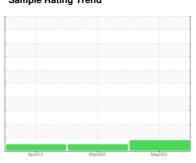
Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the component. The amount and size of particulates present in the system is acceptable. The condition of oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend







H-05
Component

Hydraulic System

MOBIL DTE 10 EXCEL 32 (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).

Wear

All component wear rates are normal.

Contamination

There is a moderate amount of silt (particulates < 6 microns in size) present in the oil.

Fluid Condition

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

		Apr2012 May2020 May2023				
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI021614	MHI022658	RP107496
Sample Date		Client Info		02 May 2023	11 May 2020	01 Apr 2012
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	8018	0
Oil Changed		Client Info		Not Changd	Not Changd	N/A
Sample Status				MARGINAL	NORMAL	NORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	26	11	3
Chromium	ppm	ASTM D5185m	>20	<1	<1	0
Nickel	ppm	ASTM D5185m	>20	<1	0	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	2	0	0
Lead	ppm	ASTM D5185m	>20	<1	<1	2
Copper	ppm	ASTM D5185m	>20	4	<1	<1
Tin	ppm	ASTM D5185m	>20	<1	0	0
Antimony	ppm	ASTM D5185m			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	<1	0
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		<1	0	0
Manganese	ppm	ASTM D5185m		<1	<1	0
Magnesium	ppm	ASTM D5185m		2	4	0
Calcium	ppm	ASTM D5185m	120	106	126	112
Phosphorus	ppm	ASTM D5185m	475	315	447	569
Zinc	ppm	ASTM D5185m		3	16	0
Sulfur	ppm	ASTM D5185m	1275	1191	1407	1512
CONTAMINANTS	;	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	1	2	0
Sodium	ppm	ASTM D5185m		1	1	0
Potassium	ppm	ASTM D5185m	>20	1	0	0
Water	%	ASTM D6304	>0.1	0.011	0.001	0.004
ppm Water	ppm	ASTM D6304	>1000	116	9.1	40
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4μm		ASTM D7647	>5000	<u> </u>	4051	285
Particles >6µm		ASTM D7647	>1300	483	684	155
Particles >14μm		ASTM D7647	>160	25	67	26
Particles >21μm		ASTM D7647	>40	9	18	8
Particles >38μm		ASTM D7647	>10	0	1	1
Particles >71μm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>19/17/14	<u>^</u> 20/16/12	19/17/13	15/14/12
FLUID DEGRADA	ATION	method	limit/base	current	history1	history2

Acid Number (AN)

mg KOH/g ASTM D8045

0.178 0.091 0.140 Contact/Location: WESLEY CAMPBELL - MITWHI



OIL ANALYSIS REPORT

