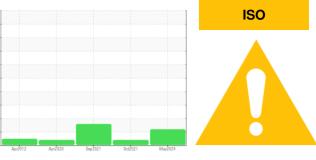


OIL ANALYSIS REPORT

Sample Rating Trend



Machine Id

G-04 Component Hydraulic System MOBIL DTE 10 EXCEL 32 (45 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 < 14 microns in size) present in the oil.

Fluid Condition

The AN level is acceptable for this fluid.

SAMPLE INFORM	ATION	method	limit/base	current	history1	history2
Sample Number		Client Info		MHI026403	MHI017353	MHI017356
Sample Date		Client Info		15 May 2024	04 Oct 2021	17 Sep 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		N/A	N/A	N/A
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>50	24	18	16
Chromium	ppm	ASTM D5185m	>20	0	<1	<1
Nickel	ppm	ASTM D5185m	>20	<1	<1	<1
Titanium	ppm	ASTM D5185m		<1	0	0
Silver	ppm	ASTM D5185m		0	0	0
Aluminum	ppm	ASTM D5185m	>20	<1	0	0
Lead	ppm	ASTM D5185m	>20	2	2	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		0	0	0
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	<1	<1
Barium	ppm	ASTM D5185m		<1	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m		5	3	3
Calcium	ppm	ASTM D5185m	120	127	144	132
Phosphorus	ppm	ASTM D5185m	475	425	503	454
Zinc	ppm	ASTM D5185m		37	10	6
Sulfur	ppm	ASTM D5185m	1275	1764	1466	1365
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>+30	2	<1	<1
Silicon Sodium	ppm ppm	ASTM D5185m ASTM D5185m	>+30	2 4		<1 1
					<1	
Sodium Potassium	ppm	ASTM D5185m	>20	4	<1 2	1
Sodium Potassium	ppm ppm	ASTM D5185m ASTM D5185m	>20	4 2	<1 2 <1	1 0
Sodium Potassium Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304	>20 >0.1	4 2 0.004	<1 2 <1 0.008	1 0 0.003 35.8
Sodium Potassium Water ppm Water	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304	>20 >0.1 >1000	4 2 0.004 42	<1 2 <1 0.008 86.0	1 0 0.003 35.8
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method	>20 >0.1 >1000 limit/base	4 2 0.004 42 current	<1 2 <1 0.008 86.0 history1	1 0 0.003 35.8 history2
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647	>20 >0.1 >1000 limit/base >5000	4 2 0.004 42 <u>current</u> ▲ 111023	<1 2 <1 0.008 86.0 history1 7222	1 0 0.003 35.8 history2 ▲ 24605
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 method ASTM D7647 ASTM D7647	>20 >0.1 >1000 limit/base >5000 >1300	4 2 0.004 42 <u>current</u> ▲ 111023 ▲ 9110	<1 2 <1 0.008 86.0 history1 7222 789	1 0 0.003 35.8 history2 ▲ 24605 ▲ 2460
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.1 >1000 limit/base >5000 >1300 >160	4 2 0.004 42 <u>current</u> ▲ 111023 ▲ 9110 84	<1 2 <1 0.008 86.0 history1 7222 789 69	1 0 0.003 35.8 history2 ▲ 24605 ▲ 2460 ▲ 161
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.1 >1000 limit/base >5000 >1300 >160 >40	4 2 0.004 42 <u>current</u> ▲ 111023 ▲ 9110 84 30	<1 2 <1 0.008 86.0 history1 ▲ 7222 789 69 16	1 0 0.003 35.8 history2 ▲ 24605 ▲ 2460 ▲ 161 ▲ 41
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >14µm Particles >21µm Particles >38µm	ppm ppm % ppm	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.1 >1000 limit/base >5000 >1300 >160 >40 >10	4 2 0.004 42 <u>current</u> ▲ 111023 ▲ 9110 84 30 1	<1 2 <1 0.008 86.0 history1 ▲ 7222 789 69 16 0	1 0 0.003 35.8 history2 ▲ 24605 ▲ 2460 ▲ 161 ▲ 41 0
Sodium Potassium Water ppm Water FLUID CLEANLIN Particles >4µm Particles >6µm Particles >21µm Particles >38µm Particles >71µm	ppm ppm % ppm IESS	ASTM D5185m ASTM D5185m ASTM D6304 ASTM D6304 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647 ASTM D7647	>20 >0.1 >1000 limit/base >5000 >1300 >160 >40 >10 >3	4 2 0.004 42 <urrent ▲ 111023 ▲ 9110 84 30 1 0</urrent 	<1 2 <1 0.008 86.0 history1	1 0 0.003 35.8 ▲ 24605 ▲ 2460 ▲ 161 ▲ 41 0 0 0

Report Id: MITWHI [WUSCAR] 06204601 (Generated: 06/12/2024 12:28:18) Rev: 1

Contact/Location: WESLEY CAMPBELL - MITWHI



OIL ANALYSIS REPORT

scalar

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method

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ASTM D445

method

scalar *Visual

limit/base

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

limit/base

limit/base

>0.1

32

current

NONE

NONE

NONE

NONE

NONE

NONE

NORML

NORML

current

current

NEG

NEG

31.9

VISUAL

White Metal

Yellow Metal

Precipitate

Silt

Debris

Odor

Color

Bottom

Sand/Dirt

Appearance

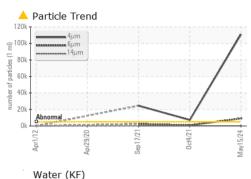
Free Water

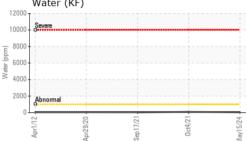
Visc @ 40°C

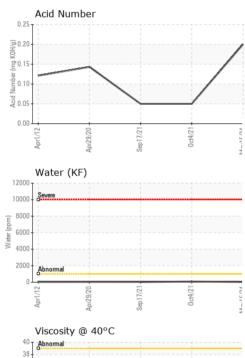
Emulsified Water

FLUID PROPERTIES

SAMPLE IMAGES









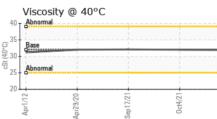


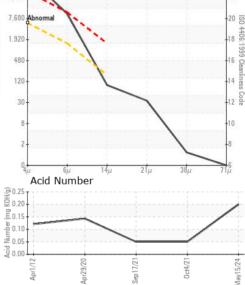
GRAPHS		A Dortido	Count
		A Particle	Count
E 15		122,880	
E 15 10		30,720	
		7,680 Abnormal	·.
Apr1/12 Apr29/20	Sep 17/21. Oct4/21.	Manual 1.920	1.
Non-ferrous Metals		≥ <u>sa</u> ;te 480 -	
10 8 copper		120-	1
		120- E 30-	
2-		8-	
Apri29/20	p17/21	47 2- 25 2-	

May15/24 -

: 10 Jun 2024

: 12 Jun 2024





history1

VLITE

NONE

NONE

NONE

VLITE

NONE

NORML

NORML

history

history1

NEG

NEG

32.0

history2

LIGHT

NONE

NONE

NONE

VLITE

NONE

NORML

NORML

history2

history2

NEG

NEG

32.1

DIAMOND WTG - WHITE DEER SITE - MPS WD PO BOX 872 WHITE DEER, TX : 12 Jun 2024 - Doug Bogart US 79097 Contact: WESLEY CAMPBELL wesley.campbell@diamondwtg.com T: (806)883-1051 F: (806)883-2004

Test Package : IND 2 (Additional Tests: KF) 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.

: MHI026403

: 06204601

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

: WearCheck USA - 501 Madison Ave., Cary, NC 27513

Received

Diagnosed

Tested

Report Id: MITWHI [WUSCAR] 06204601 (Generated: 06/12/2024 12:28:19) Rev: 1

Certificate 12367

Laboratory

Sample No.

Lab Number

Unique Number : 11072062

Contact/Location: WESLEY CAMPBELL - MITWHI

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