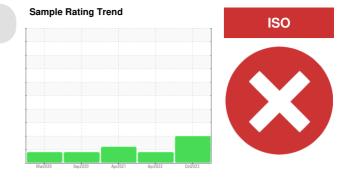


## **PROBLEM SUMMARY**

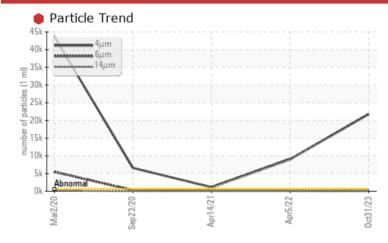
# Area MT TEST CELL D3

Component **Hydraulic System** 

MOBIL DTE 25 (--- GAL)



## COMPONENT CONDITION SUMMARY



## **RECOMMENDATION**

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

PROBLEMATIC TEST RESULTS										
Sample Status		SEVERE	ABNORMAL	ATTENTION						
Particles >4µm	ASTM D7647 >640	21787	<b>△</b> 9017	<u></u> 1090						
Particles >6µm	ASTM D7647 >160	512	<b>▲</b> 322	<u>\$\times\$ 254</u>						
Oil Cleanliness	ISO 4406 (c) >16/	14/11 <b>22/16/10</b>	<u>^</u> 20/16/11	▲ 17/15/12						

Customer Id: MICGRE Sample No.: WC0810911 Lab Number: 05996649 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Wes Davis +1 905-569-8600 x223 wesd@wearcheck.ca

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 We recommend you service the filters on this component. Resample ? Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type ? Information Required and micron rating with next sample. The air breather requires service. If unrated, we recommend that you replace with a **Check Breathers** ? suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather Check Seals Check seals and/or filters for points of contaminant entry.

## HISTORICAL DIAGNOSIS

## 05 Apr 2022 Diag: Jonathan Hester



We recommend you service the filters on this component if applicable. Resample at the next service interval to monitor.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.



## 14 Apr 2021 Diag: Angela Borella



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 moderate 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.



## 23 Sep 2020 Diag: Don Baldridge



Oil and filter change at the time of sampling has been noted. 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 particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



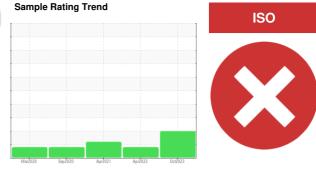


## **OIL ANALYSIS REPORT**

# Area TEST CELL D3

**Hydraulic System** 

MOBIL DTE 25 (--- GAL)



## DIAGNOSIS

## Recommendation

Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend you service the filters on this component. Resample in 30-45 days to monitor this situation. NOTE: Please provide information regarding reservoir capacity, filter type and micron rating with next sample.

## Wear

All component wear rates are normal.

## Contamination

There is a high amount of silt (particulates < 14 microns in size) present in the oil. The system cleanliness code is much higher than the acceptable limit for the target ISO 4406 cleanliness code.

## **Fluid Condition**

The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.

		Mar2020	Sep2020	Apr2021 Apr2022	Oct2023	
SAMPLE INFORM	MATION	method	limit/base	current	history1	history2
Sample Number		Client Info		WC0810911	WC0611440	WC0502678
Sample Date		Client Info		31 Oct 2023	05 Apr 2022	14 Apr 2021
Machine Age	hrs	Client Info		0	0	0
Oil Age	hrs	Client Info		0	0	0
Oil Changed		Client Info		Not Changd	Not Changd	Not Changd
Sample Status				SEVERE	ABNORMAL	ATTENTION
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	6	9	12
Chromium	ppm	ASTM D5185m	>20	<1	0	0
Nickel	ppm	ASTM D5185m	>20	0	<1	0
Titanium	ppm	ASTM D5185m		0	0	0
Silver	ppm	ASTM D5185m		0	0	1
Aluminum	ppm	ASTM D5185m	>20	<1	<1	0
Lead	ppm	ASTM D5185m	>20	0	0	0
Copper	ppm	ASTM D5185m	>20	<1	<1	<1
Tin	ppm	ASTM D5185m	>20	0	0	<1
Antimony	ppm	ASTM D5185m				0
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0	1	4
Barium	ppm	ASTM D5185m		0	0	0
Molybdenum	ppm	ASTM D5185m		0	<1	0
Manganese	ppm	ASTM D5185m		0	<1	<1
Magnesium	ppm	ASTM D5185m		<1	0	<1
Calcium	ppm	ASTM D5185m		75	104	130
Phosphorus	ppm	ASTM D5185m		327	440	472
Zinc	ppm	ASTM D5185m		545	594	715
Sulfur	ppm	ASTM D5185m		3602	4077	6224
CONTAMINANTS	3	method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	0	<1	<1
Sodium	ppm	ASTM D5185m		0	<1	2
Potassium	ppm	ASTM D5185m	>20	1	0	0
FLUID CLEANLIN	IESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>640	<b>21787</b>	<b>4</b> 9017	<b>△</b> 1090
Particles >6µm		ASTM D7647	>160	<u> </u>	<b>△</b> 322	<u>\$\times\$ 254</u>
Particles >14µm		ASTM D7647	>20	6	16	<u>^</u> 22
Particles >21µm		ASTM D7647	>4	2	3	5
Particles >38µm		ASTM D7647	>3	0	0	0
Particles >71µm		ASTM D7647	>3	0	0	0
Oil Cleanliness		ISO 4406 (c)	>16/14/11	<b>22/16/10</b>	<u>^</u> 20/16/11	<b>△</b> 17/15/12
FLUID DEGRADA	NOITA	method	limit/base	current	history1	history2
A aid Number (AN)	ma 1/011/-	ACTM DOC45		0.44	0.55	0.750

0.44

Acid Number (AN)

mg KOH/g ASTM D8045

0.55

0.753



## **OIL ANALYSIS REPORT**







Laboratory Sample No. Lab Number

**Unique Number** 

: WC0810911 : 05996649 : 10725009 Test Package : IND 2

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : 02 Nov 2023 Received

Diagnosed : 03 Nov 2023 : Wes Davis Diagnostician

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

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