## **PROBLEM SUMMARY**

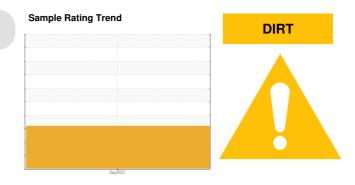
## [187071-N2STV-4W] **U OF MICHIGAN (S/N 10003244)** Component

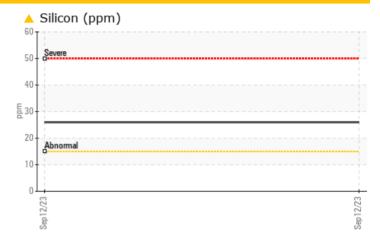
**Hydraulic System** MOBIL DTE FM 32 (--- GAL)

Parker

### COMPONENT CONDITION SUMMARY







#### RECOMMENDATION

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

### PROBLEMATIC TEST RESULTS

THOBELM/THO TEOT HEODETO								
Sample Status				ABNORMAL				
Silicon	ppm	ASTM D5185m	>15	<u> </u>				
Particles >4µm		ASTM D7647	>10000	🔺 68491				
Particles >6µm		ASTM D7647	>2500	<u> </u>				
Particles >14µm		ASTM D7647	>320	<b>465</b>				
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<u> </u>				
PrtFilter					no image	no image		

Customer Id: IMRCHA Sample No.: PH05965367 Lab Number: 05965367 Test Package: PLANT



To manage this report scan the QR code

To discuss the diagnosis or test data: Jonathan Hester +1 919-379-4092 x4092 ihester@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			?	We recommend you service the filters on this component.			

HISTORICAL DIAGNOSIS

## **OIL ANALYSIS REPORT**

Sample Rating Trend

#### Area [187071-N2STV-4W] Machine Id U OF MICHIGAN (S/N 10003244) Component

Hydraulic System Fluid MOBIL DTE FM 32 (--- GAL)

Parker

#### DIAGNOSIS

#### Recommendation

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

#### Wear

All component wear rates are normal.

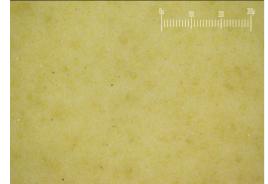
#### Contamination

There is a high amount of particulates present in the oil. Elemental level of silicon (Si) above normal indicating ingress of seal material.

### Fluid Condition

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

## Particle Filter (Magn: 200 x)



SAMPLE INFORM	IATION	method	limit/base	current	history1	history2
Sample Number		Client Info		PH05965367		
Sample Date		Client Info		12 Sep 2023		
Machine Age	yrs	Client Info		0		
Oil Age	yrs	Client Info		2		
Oil Changed		Client Info		N/A		
Sample Status				ABNORMAL		
WEAR METALS		method	limit/base	current	history1	history2
Iron	ppm	ASTM D5185m	>20	<1		
Chromium	ppm	ASTM D5185m	>20	0		
Nickel	ppm	ASTM D5185m	>20	0		
Titanium	ppm	ASTM D5185m		0		
Silver	ppm	ASTM D5185m		0		
Aluminum	ppm	ASTM D5185m	>20	<1		
Lead	ppm	ASTM D5185m	>20	<1		
Copper	ppm	ASTM D5185m	>20	18		
Tin	ppm	ASTM D5185m	>20	0		
Vanadium	ppm	ASTM D5185m		0		
Cadmium	ppm	ASTM D5185m		0		
ADDITIVES		method	limit/base	current	history1	history2
Boron	ppm	ASTM D5185m		0		
Barium	ppm	ASTM D5185m		0		
Molybdenum	ppm	ASTM D5185m		0		
Manganese	ppm	ASTM D5185m		0		
Magnesium	ppm	ASTM D5185m		2		
Calcium	ppm	ASTM D5185m		25		
Phosphorus	ppm	ASTM D5185m		526		
Zinc	ppm	ASTM D5185m		95		
Sulfur	ppm	ASTM D5185m		669		
CONTAMINANTS		method	limit/base	current	history1	history2
Silicon	ppm	ASTM D5185m	>15	<u> </u>		
Sodium	ppm	ASTM D5185m		1		
Potassium	ppm	ASTM D5185m	>20	0		
FLUID CLEANLIN	ESS	method	limit/base	current	history1	history2
Particles >4µm		ASTM D7647	>10000	<u> </u>		
Particles >6µm		ASTM D7647	>2500	<u> </u>		
Particles >14µm		ASTM D7647	>320	<b>465</b>		
Particles >21µm		ASTM D7647	>80	66		
Particles >38µm		ASTM D7647	>20	4		
Particles >71µm		ASTM D7647	>4	2		
Oil Cleanliness		ISO 4406 (c)	>20/18/15	<b>A</b> 23/21/16		
FLUID DEGRADA	TION	method	limit/base	current	history1	history2
Acid Number (AN)	mg KOH/g	ASTM D8045		0.22		



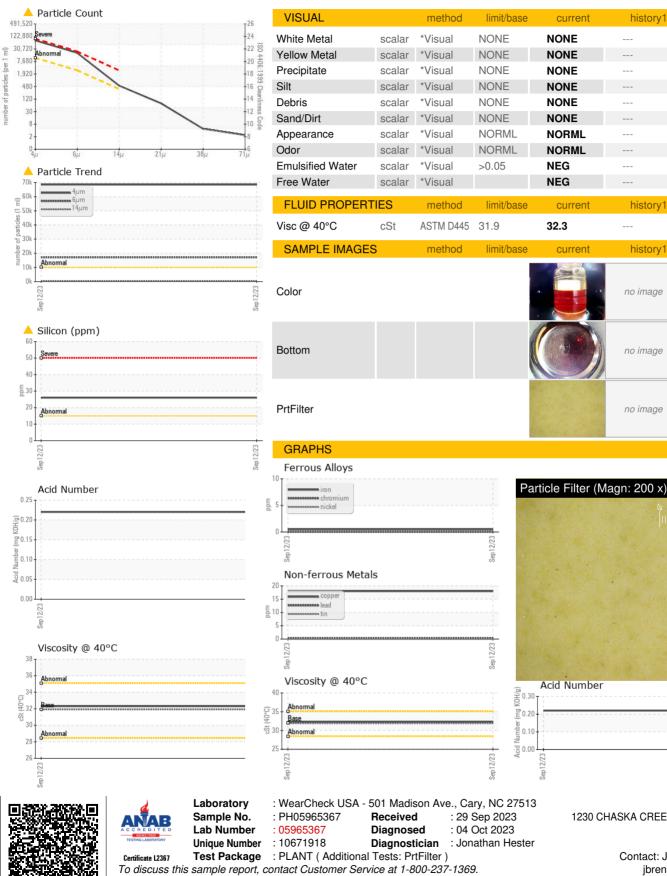


Report Id: IMRCHA [WUSCAR] 05965367 (Generated: 10/05/2023 04:20:33) Rev: 1



number of particles (per 1

# **OIL ANALYSIS REPORT**



\* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

IMRIS 1230 CHASKA CREEK WAY, SUITE 100 CHASKA, MN US 55318 Contact: JILL BRENENGEN jbrenengen@imris.com T: (763)203-6335 Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012) F:

Contact/Location: JILL BRENENGEN - IMRCHA

Sep.

history2

historv2

history2

no imade

no imade

no image