

PROBLEM SUMMARY

Sample Rating Trend

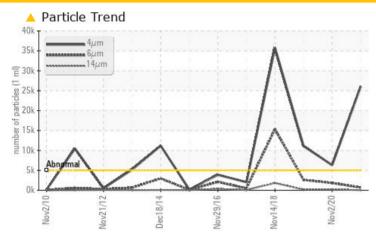
ISO

B-16 (S/N 7459)

Component **Hydraulic System**

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 TEST RESULTS | | | | | | | | | |
|--------------------------|--------------|-----------|-----------------|------------------|------------------|--|--|--|--|
| Sample Status | | | ABNORMAL | ABNORMAL | ABNORMAL | | | | |
| Particles >4µm | ASTM D7647 | >5000 | 26078 | <u>▲</u> 6314 | <u>11090</u> | | | | |
| Oil Cleanliness | ISO 4406 (c) | >19/17/14 | 22/17/12 | 2 0/18/15 | 2 1/19/15 | | | | |

Customer Id: MITODO Sample No.: MHI017281 Lab Number: 05400235 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

RECOMMENDED ACTIONS

| 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

02 Nov 2020 Diag: Don Baldridge

ISO



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.



07 Oct 2019 Diag: Don Baldridge

ISO



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.

view report

14 Nov 2018 Diag: Don Baldridge

ISO



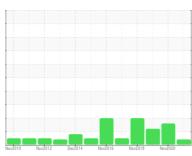
Re-sample to verify the actual oil condition. Replace filter elements. Change oil if cleanliness level does not improve after replacing the filter(s). All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO



B-16 (S/N 7459)

Hydraulic System

MOBIL DTE 10 EXCEL 32 (--- 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).

All component wear rates are normal.

Contamination

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

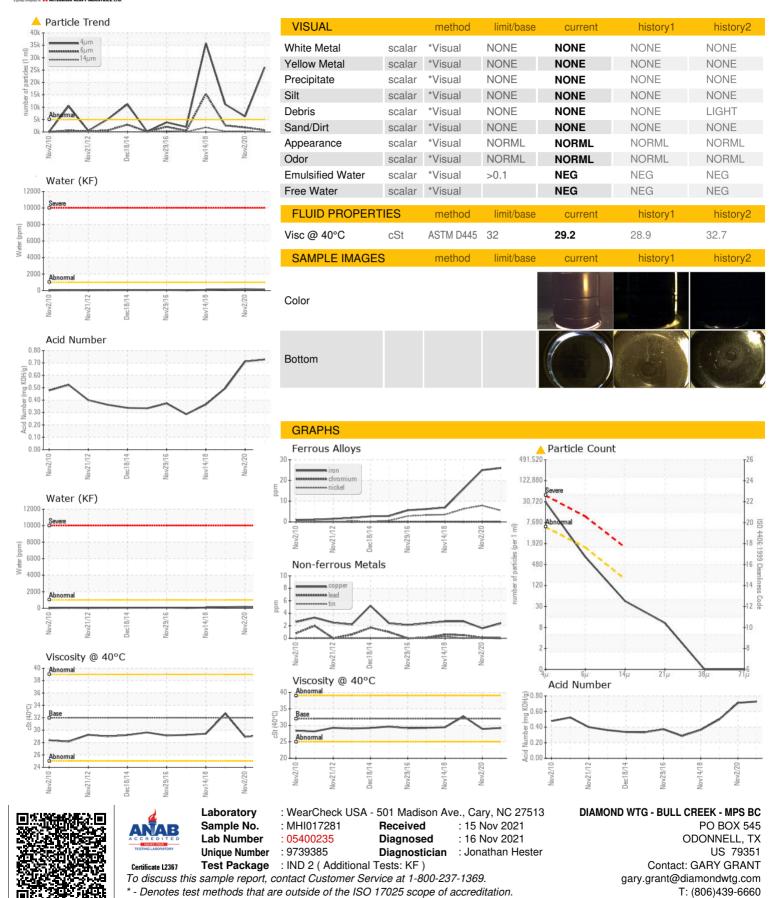
Fluid Condition

The AN level is acceptable for this fluid.

| SAMPLE INFORM | MATION | method | limit/base | current | history1 | history2 |
|-----------------|--------|--------------|------------|-----------------|-------------------|-------------------|
| Sample Number | | Client Info | | MHI017281 | MHI025310 | MHI009281 |
| Sample Date | | Client Info | | 08 Nov 2021 | 02 Nov 2020 | 07 Oct 2019 |
| Machine Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Age | hrs | Client Info | | 90059 | 83333 | 75826 |
| Oil Changed | | Client Info | | N/A | Not Changd | Not Changd |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| WEAR METALS | | method | limit/base | current | history1 | history2 |
| Iron | ppm | ASTM D5185m | >50 | 26 | 25 | 16 |
| Chromium | ppm | ASTM D5185m | | 0 | <1 | 0 |
| Nickel | ppm | ASTM D5185m | | 6 | 8 | 6 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Aluminum | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Copper | ppm | ASTM D5185m | | 2 | 2 | 3 |
| Tin | ppm | ASTM D5185m | | <1 | <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 | current | history1 | history2 |
| Boron | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 2 | 4 | 1 |
| Calcium | ppm | ASTM D5185m | 120 | 86 | 84 | 98 |
| Phosphorus | ppm | ASTM D5185m | 475 | 372 | 351 | 409 |
| Zinc | ppm | ASTM D5185m | | 336 | 297 | 316 |
| Sulfur | ppm | ASTM D5185m | 1275 | 3649 | 3381 | 2206 |
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
| Silicon | ppm | ASTM D5185m | >+30 | 1 | 2 | <1 |
| Sodium | ppm | ASTM D5185m | | 2 | 5 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Water | % | ASTM D6304 | >0.1 | 0.013 | 0.016 | 0.013 |
| ppm Water | ppm | ASTM D6304 | >1000 | 135.5 | 162.3 | 138.4 |
| FLUID CLEANLIN | IESS | method | limit/base | current | history1 | history2 |
| Particles >4μm | | ASTM D7647 | >5000 | <u>^</u> 26078 | △ 6314 | <u> </u> |
| Particles >6µm | | ASTM D7647 | >1300 | 700 | <u>▲</u> 1822 | <u>▲</u> 2587 |
| Particles >14μm | | ASTM D7647 | >160 | 38 | ▲ 188 | △ 179 |
| Particles >21µm | | ASTM D7647 | >40 | 9 | <u>▲</u> 56 | 37 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 1 | 2 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | <u>22/17/12</u> | <u>^</u> 20/18/15 | <u>△</u> 21/19/15 |
| FLUID DEGRADA | TION | method | limit/base | current | history1 | history2 |



OIL ANALYSIS REPORT



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

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