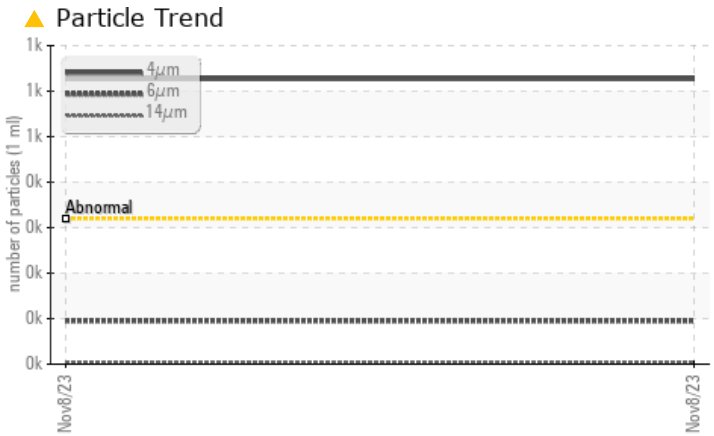
# PROBLEM SUMMARY

Sample Rating Trend

ISO

Machine Id
## MWFGPB-1 (S/N 21-319)
Component
**Hydraulic Power Pack**
Fluid
**MOBIL DTE 25 (335 GAL)**

## COMPONENT CONDITION SUMMARY




## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy. ( Customer Sample Comment: Viscosity index please )

## PROBLEMATIC TEST RESULTS

| | | | | | | |
|---|---|---|---|---|---|---|
| Sample Status | | | | ATTENTION | --- | --- |
| Particles >4µm | | ASTM D7647 | >320 | ▲ 627 | --- | --- |
| Particles >6µm | | ASTM D7647 | >80 | ▲ 95 | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >15/13/10 | ▲ 16/14/10 | --- | --- |


**Customer Id:** WESCONSC
**Sample No.:** WC0782773
**Lab Number:** 06008305
**Test Package:** IND 2

*To manage this report scan the QR code*

*To discuss the diagnosis or test data:*
Doug Bogart +1 (800)237-1369 x4016
dougb@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 |
|---|---|---|---|---|
| Alert | --- | --- | ? | Please note that this is a corrected copy. |

## HISTORICAL DIAGNOSIS

# OIL ANALYSIS REPORT

Sample Rating Trend


ISO

Machine Id
## MWFGPB-1 (S/N 21-319)
Component
**Hydraulic Power Pack**
Fluid
**MOBIL DTE 25 (335 GAL)**

## DIAGNOSIS

**Recommendation**
No corrective action is recommended at this time. Resample at the next service interval to monitor. Please note that this is a corrected copy. ( Customer Sample Comment: Viscosity index please )

**Wear**
All component wear rates are normal.

**Contamination**
There is a moderate amount of silt (particulates < 14 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.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **WC0782773** | --- | --- |
| Sample Date | | Client Info | | **08 Nov 2023** | --- | --- |
| Machine Age | hrs | Client Info | | **9146** | --- | --- |
| Oil Age | hrs | Client Info | | **6786** | --- | --- |
| Oil Changed | | Client Info | | **N/A** | --- | --- |
| Sample Status | | | | **ATTENTION** | --- | --- |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Water | | WC Method | >0.05 | **NEG** | --- | --- |

| 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 | **0** | --- | --- |
| Lead | ppm | ASTM D5185m | >20 | **0** | --- | --- |
| Copper | ppm | ASTM D5185m | >20 | **16** | --- | --- |
| Tin | ppm | ASTM D5185m | >20 | **<1** | --- | --- |
| Vanadium | ppm | ASTM D5185m | | **<1** | --- | --- |
| 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 | | **<1** | --- | --- |
| Magnesium | ppm | ASTM D5185m | | **0** | --- | --- |
| Calcium | ppm | ASTM D5185m | | **14** | --- | --- |
| Phosphorus | ppm | ASTM D5185m | | **111** | --- | --- |
| Zinc | ppm | ASTM D5185m | | **78** | --- | --- |
| Sulfur | ppm | ASTM D5185m | | **453** | --- | --- |

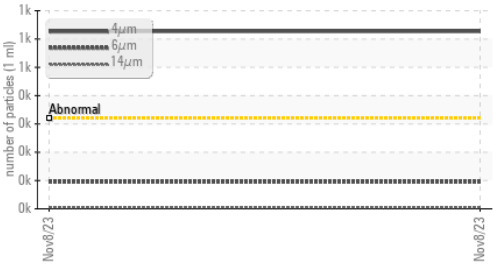
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >15 | **<1** | --- | --- |
| Sodium | ppm | ASTM D5185m | | **<1** | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | --- | --- |

| FLUID CLEANLINESS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Particles >4µm | | ASTM D7647 | >320 | ▲ **627** | --- | --- |
| Particles >6µm | | ASTM D7647 | >80 | ▲ **95** | --- | --- |
| Particles >14µm | | ASTM D7647 | >10 | **5** | --- | --- |
| Particles >21µm | | ASTM D7647 | >3 | **1** | --- | --- |
| Particles >38µm | | ASTM D7647 | >3 | **0** | --- | --- |
| Particles >71µm | | ASTM D7647 | >3 | **0** | --- | --- |
| Oil Cleanliness | | ISO 4406 (c) | >15/13/10 | ▲ **16/14/10** | --- | --- |

| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | **0.13** | --- | --- |

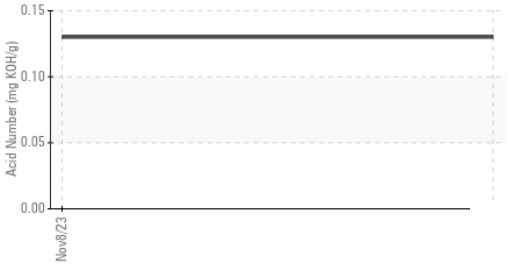
# OIL ANALYSIS REPORT

Particle Trend




Viscosity @ 100°C


Acid Number

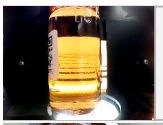



Viscosity @ 100°C


Viscosity @ 40°C


| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | --- | --- |
| Precipitate | scalar | *Visual | NONE | **NONE** | --- | --- |
| Silt | scalar | *Visual | NONE | **NONE** | --- | --- |
| Debris | scalar | *Visual | NONE | **NONE** | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | **NONE** | --- | --- |
| Appearance | scalar | *Visual | NORML | **NORML** | --- | --- |
| Odor | scalar | *Visual | NORML | **NORML** | --- | --- |
| Emulsified Water | scalar | *Visual | >0.05 | **NEG** | --- | --- |
| Free Water | scalar | *Visual | | **NEG** | --- | --- |

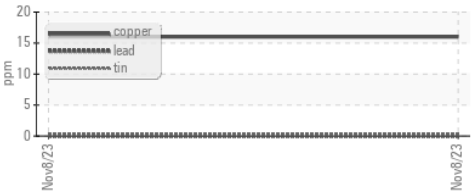
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 40°C | cSt | ASTM D445 | 44.2 | **44.0** | --- | --- |
| Visc @ 100°C | cSt | ASTM D445 | 6.65 | **7.2** | --- | --- |
| Viscosity Index (VI) | Scale | ASTM D2270 | 98 | **125** | --- | --- |

| SAMPLE IMAGES | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|
| Color | | |  | *no image* | *no image* |
| Bottom | | |  | *no image* | *no image* |

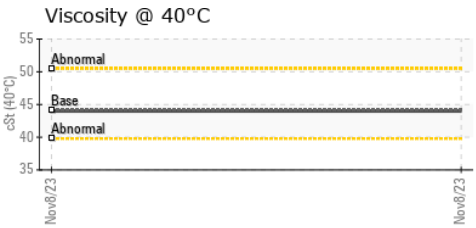
## GRAPHS

Ferrous Alloys

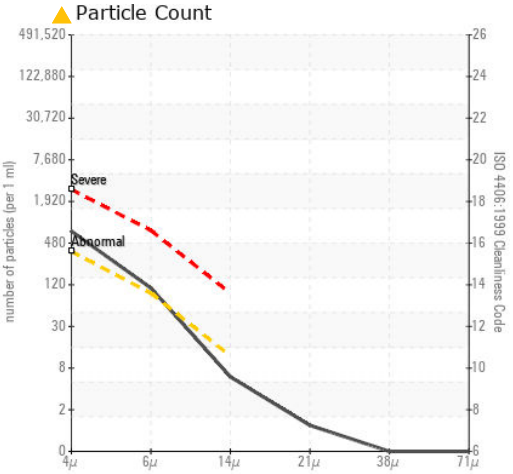

Non-ferrous Metals



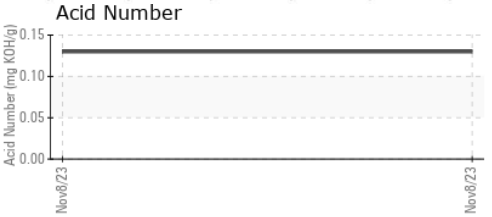

Viscosity @ 40°C




Particle Count




Acid Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : WC0782773 **Received** : 15 Nov 2023
**Lab Number** : 06008305 **Diagnosed** : 22 Nov 2023
**Unique Number** : 10742067 **Diagnostician** : Doug Bogart
**Test Package** : IND 2 ( Additional Tests: KV100, VI )

*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)*

**WEST SIDE SOLUTIONS**
4506 HWY 90
CONWAY, SC
US 29526-9631
Contact: KEN ANDRE
westsidesolutionsus@gmail.com
T: (216)577-5014
F: