MOB II

PIRTEK USA fluid transfer solutions

# OIL ANALYSIS REPORT

| | |
|---|---|
| WEAR | ABNORMAL |
| CONTAMINATION | NORMAL |
| FLUID CONDITION | NORMAL |

Machine Id
**7800**
Component
**Hydraulic System**
Fluid
**MOBIL DTE 25 (120 GAL)**

## RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

## WEAR

The copper level is abnormal. All other component wear rates are normal.

## CONTAMINATION

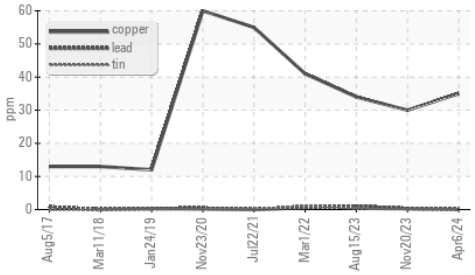
The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil.

## FLUID CONDITION

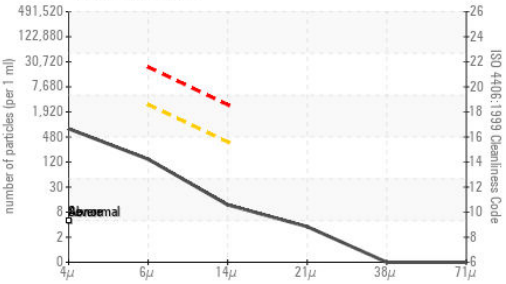
The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | PTK0005368 | PTK0005038 | PTK0004675 |
| Sample Date | | Client Info | | 06 Apr 2024 | 20 Nov 2023 | 15 Aug 2023 |
| Machine Age | hrs | Client Info | | 22731 | 0 | 0 |
| Oil Age | hrs | Client Info | | 22731 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changd | N/A | Not Changd |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | ABNORMAL |
| Iron | ppm | ASTM D5185m | >20 | <1 | 0 | 1 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >20 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >20 | 0 | <1 | 1 |
| Copper | ppm | ASTM D5185m | >20 | ▲ 35 | ▲ 30 | ▲ 34 |
| Tin | ppm | ASTM D5185m | >20 | 0 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Silicon | ppm | ASTM D5185m | >15 | 2 | 2 | 2 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 1 | 2 |
| Water | | WC Method | >0.05 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | | 665 | 864 | 1336 |
| Particles >6µm | | ASTM D7647 | >2500 | 124 | 170 | 564 |
| Particles >14µm | | ASTM D7647 | >320 | 10 | 9 | 51 |
| Particles >21µm | | ASTM D7647 | >80 | 3 | 2 | 11 |
| Particles >38µm | | ASTM D7647 | >20 | 0 | 0 | 0 |
| Particles >71µm | | ASTM D7647 | >4 | 0 | 0 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >18/15 | 14/10 | 15/10 | 16/13 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | NONE |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Appearance | scalar | *Visual | NORML | NORML | NORML | NORML |
| Odor | scalar | *Visual | NORML | NORML | NORML | NORML |
| Emulsified Water | scalar | *Visual | >0.05 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185m | | <1 | <1 | 2 |
| Boron | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 20 | 24 | 28 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Magnesium | ppm | ASTM D5185m | | 70 | 2 | 6 |
| Calcium | ppm | ASTM D5185m | | 41 | 42 | 43 |
| Phosphorus | ppm | ASTM D5185m | | 432 | 366 | 386 |
| Zinc | ppm | ASTM D5185m | | 449 | 379 | 404 |
| Sulfur | ppm | ASTM D5185m | | 3512 | 2920 | 3515 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.51 | 0.32 | 0.32 |
| Visc @ 40°C | cSt | ASTM D445 | 44.2 | 44.5 | 45.1 | 44.8 |

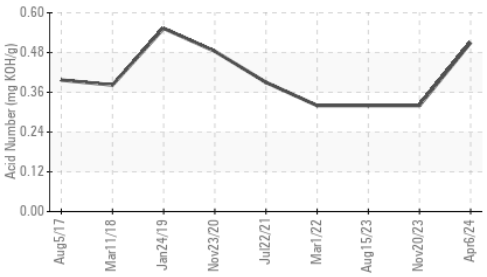
Non-ferrous Metals



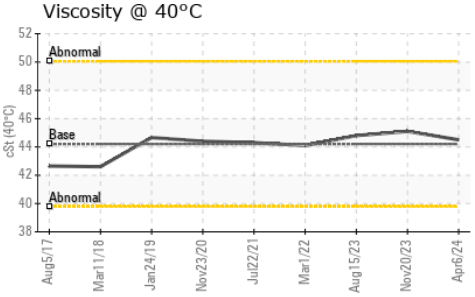

Particle Count



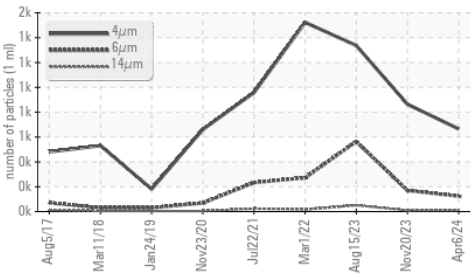

Acid Number



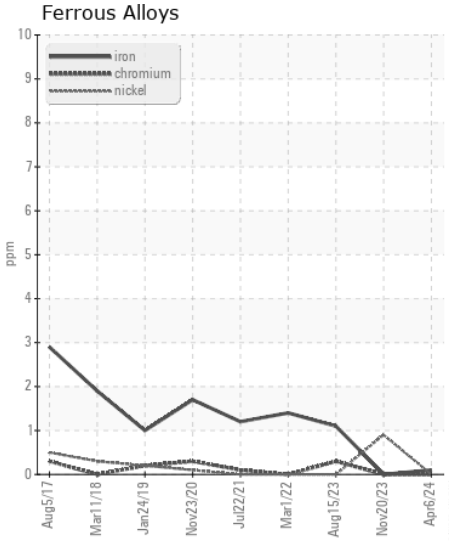

Viscosity @ 40°C



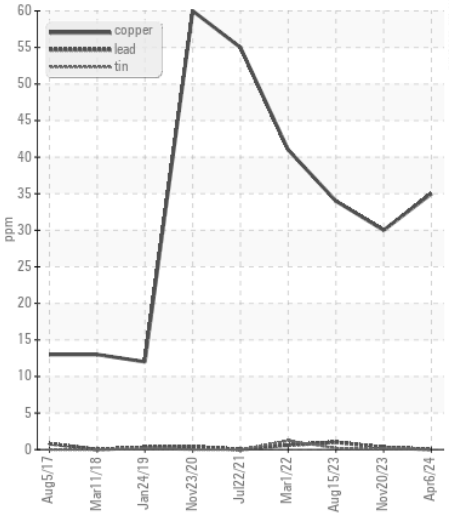

Particle Trend



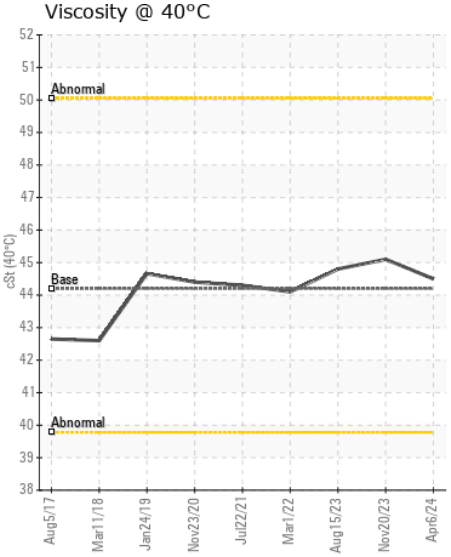

Ferrous Alloys



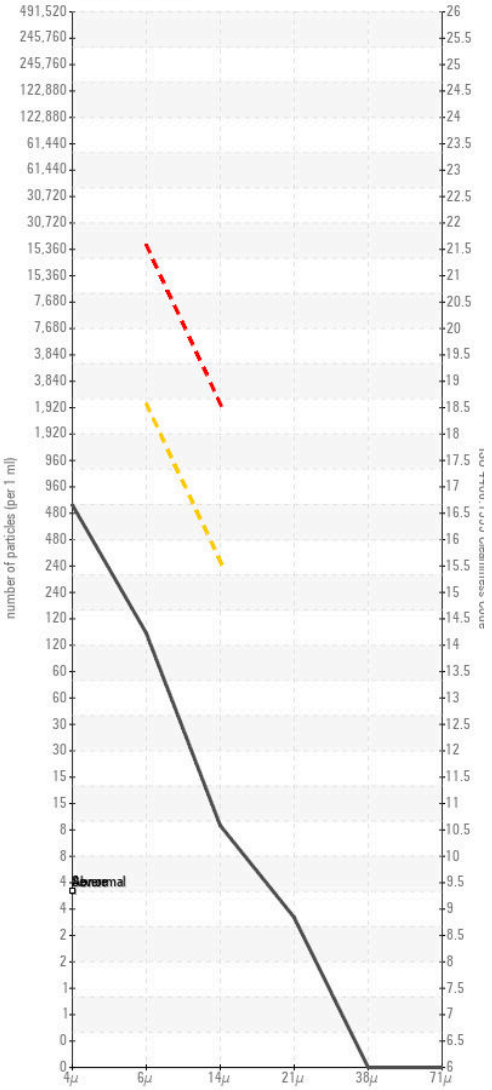

Non-ferrous Metals



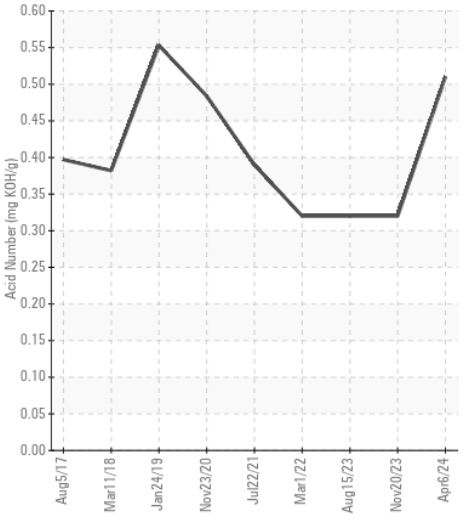

Viscosity @ 40°C




Particle Count




Acid Number




**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : PTK0005368
**Lab Number** : 06145832
**Unique Number** : 10975910
**Test Package** : MOB 2

**Received** : 11 Apr 2024
**Tested** : 12 Apr 2024
**Diagnosed** : 15 Apr 2024 - Don Baldridge

Certificate L2367

*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)*

**GLENN METALCRAFT INC**
1502 S 14TH ST
PRINCETON, MN
US 55371
Contact: JOE HOWELL
jhowell@glennmetalcraft.com
T: (763)389-5355
F: (763)389-5352