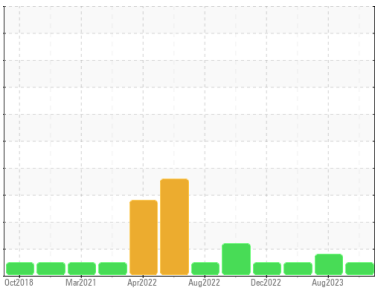
# OIL ANALYSIS REPORT

Sample Rating Trend




NORMAL

Machine Id
**TEREX MIXER FD6000 1532 (S/N 011355)**
Component
**Diesel Engine**
Fluid
**MOBIL DELVAC 1300 SUPER15W40 (8 GAL)**

## DIAGNOSIS

**Recommendation**
Resample at the next service interval to monitor.

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

**Contamination**
There is no indication of any contamination in the oil.

**Fluid Condition**
The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

| SAMPLE INFORMATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | **RW0004895** | RW0004372 | RW0004036 |
| Sample Date | | Client Info | | **03 Jan 2024** | 10 Aug 2023 | 25 Apr 2023 |
| Machine Age | hrs | Client Info | | **3568** | 3148 | 2328 |
| Oil Age | hrs | Client Info | | **408** | 399 | 428 |
| Oil Changed | | Client Info | | **Changed** | Changed | Changed |
| Sample Status | | | | **NORMAL** | MARGINAL | NORMAL |

| CONTAMINATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Fuel | | WC Method | >5 | **<1.0** | ▲ 3.9 | <1.0 |
| Water | | WC Method | >0.2 | **NEG** | NEG | NEG |
| Glycol | | WC Method | | **NEG** | NEG | NEG |

| WEAR METALS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Iron | ppm | ASTM D5185m | >100 | **33** | 45 | 56 |
| Chromium | ppm | ASTM D5185m | >20 | **0** | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | **0** | <1 | 0 |
| Titanium | ppm | ASTM D5185m | >2 | **0** | 0 | 0 |
| Silver | ppm | ASTM D5185m | >2 | **0** | <1 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | **1** | 1 | <1 |
| Lead | ppm | ASTM D5185m | >40 | **<1** | 1 | 2 |
| Copper | ppm | ASTM D5185m | >330 | **4** | 8 | 37 |
| Tin | ppm | ASTM D5185m | >15 | **<1** | <1 | 3 |
| Vanadium | ppm | ASTM D5185m | | **0** | 0 | 0 |
| Cadmium | ppm | ASTM D5185m | | **0** | <1 | 0 |

| ADDITIVES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Boron | ppm | ASTM D5185m | 0 | **44** | 31 | 45 |
| Barium | ppm | ASTM D5185m | 0 | **0** | 4 | 2 |
| Molybdenum | ppm | ASTM D5185m | 0 | **42** | 43 | 44 |
| Manganese | ppm | ASTM D5185m | | **<1** | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 0 | **576** | 463 | 504 |
| Calcium | ppm | ASTM D5185m | | **1908** | 1549 | 1638 |
| Phosphorus | ppm | ASTM D5185m | | **855** | 699 | 737 |
| Zinc | ppm | ASTM D5185m | | **1037** | 847 | 919 |
| Sulfur | ppm | ASTM D5185m | | **3242** | 2540 | 2616 |

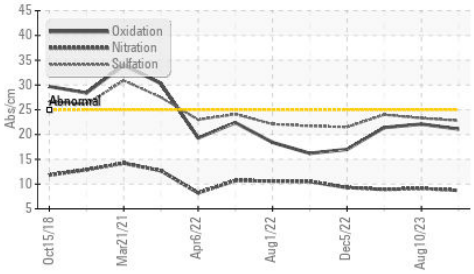
| CONTAMINANTS | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Silicon | ppm | ASTM D5185m | >25 | **6** | 7 | 8 |
| Sodium | ppm | ASTM D5185m | | **2** | 0 | 0 |
| Potassium | ppm | ASTM D5185m | >20 | **<1** | 1 | 1 |

| INFRA-RED | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Soot % | % | *ASTM D7844 | >3 | **0.6** | 0.7 | 0.8 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | **8.7** | 9.1 | 8.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | **22.8** | 23.3 | 24.0 |

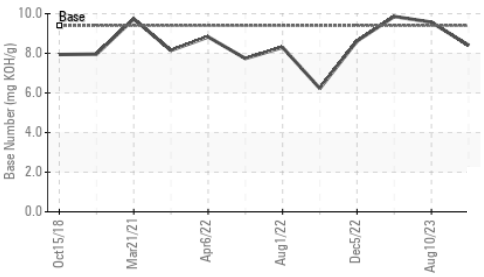
| FLUID DEGRADATION | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | **21.1** | 22.1 | 21.4 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 9.4 | **8.40** | 9.57 | 9.86 |

# OIL ANALYSIS REPORT

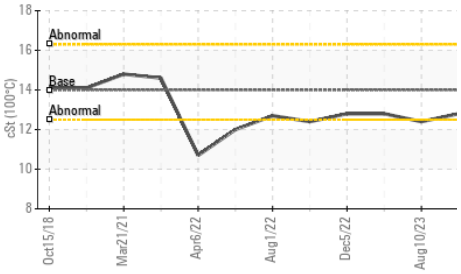
FT-IR (Direct Trend)




Base Number




Viscosity @ 100°C

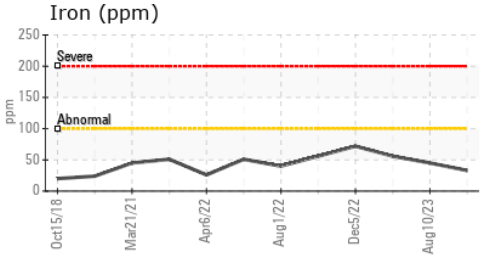



| VISUAL | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| White Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| Precipitate | scalar | *Visual | NONE | **NONE** | NONE | NONE |
| 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 | >0.2 | **NEG** | NEG | NEG |
| Free Water | scalar | *Visual | | **NEG** | NEG | NEG |

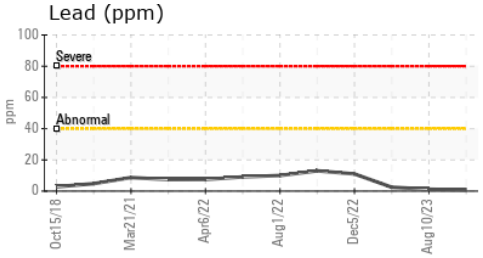
| FLUID PROPERTIES | | method | limit/base | current | history1 | history2 |
|---|---|---|---|---|---|---|
| Visc @ 100°C | cSt | ASTM D445 | 14 | **12.8** | 12.4 | 12.8 |

## GRAPHS

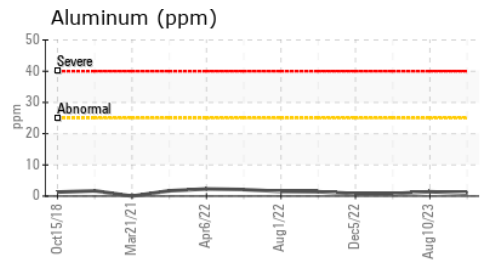
Iron (ppm)



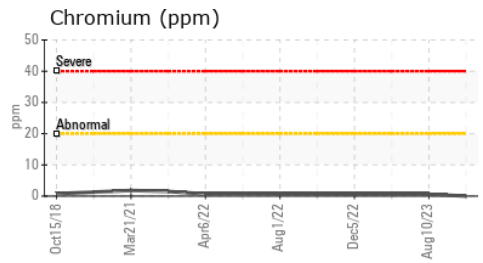

Lead (ppm)



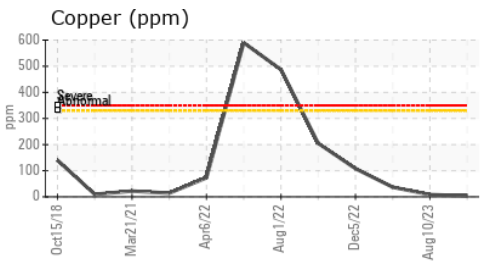

Aluminum (ppm)



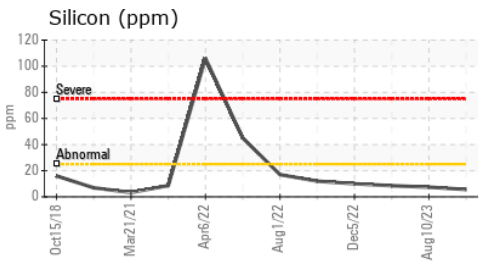

Chromium (ppm)



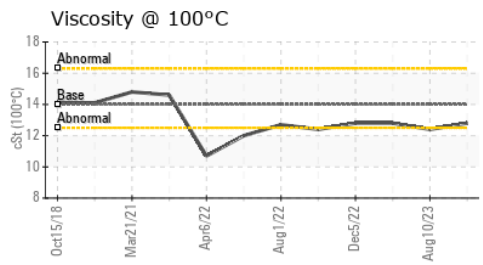

Copper (ppm)



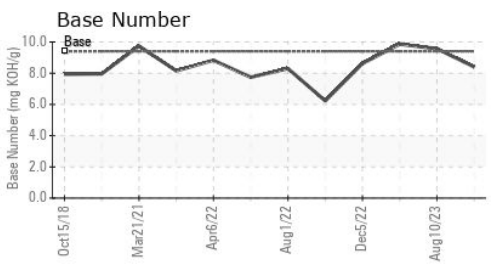

Silicon (ppm)




Viscosity @ 100°C




Base Number




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : RW0004895
**Lab Number** : 06161001
**Unique Number** : 10996424
**Test Package** : MOB 2

**Received** : 25 Apr 2024
**Tested** : 26 Apr 2024
**Diagnosed** : 26 Apr 2024 - Wes Davis

*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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