



OIL ANALYSIS REPORT

| | |
|-----------------|-----------|
| WEAR | NORMAL |
| CONTAMINATION | ATTENTION |
| FLUID CONDITION | NORMAL |

Area
Mobile Fleet
 Machine Id
6448 6448
 Component
Diesel Engine
 Fluid
MOBIL DELVAC 1300 SUPER 10W30 (--- GAL)

RECOMMENDATION

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

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | WC0918640 | WC0861785 | WC0861756 |
| Sample Date | | Client Info | | 18 Mar 2024 | 17 Jan 2024 | 15 Nov 2023 |
| Machine Age | hrs | Client Info | | 6801 | 6549 | 6261 |
| Oil Age | hrs | Client Info | | 273 | 325 | 379 |
| Filter Age | hrs | Client Info | | 273 | 325 | 379 |
| Oil Changed | | Client Info | | Not Changd | Changed | Changed |
| Filter Changed | | Client Info | | Not Changd | Changed | Changed |
| Sample Status | | | | ATTENTION | NORMAL | ATTENTION |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 8 | 6 | 11 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >4 | <1 | 0 | <1 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >3 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >20 | 6 | 3 | 7 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >330 | <1 | 9 | 13 |
| Tin | ppm | ASTM D5185m | >15 | 1 | <1 | 1 |
| Vanadium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

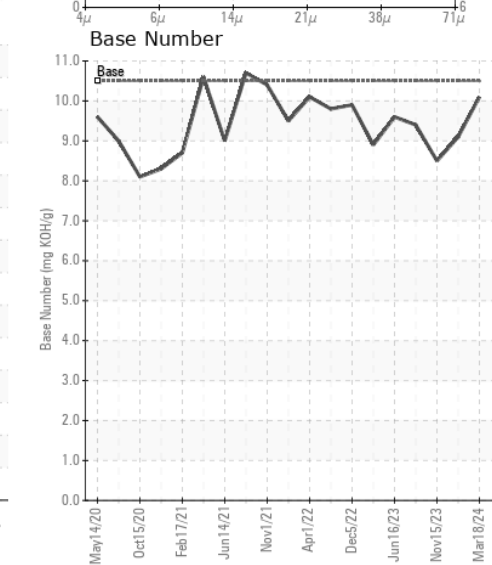
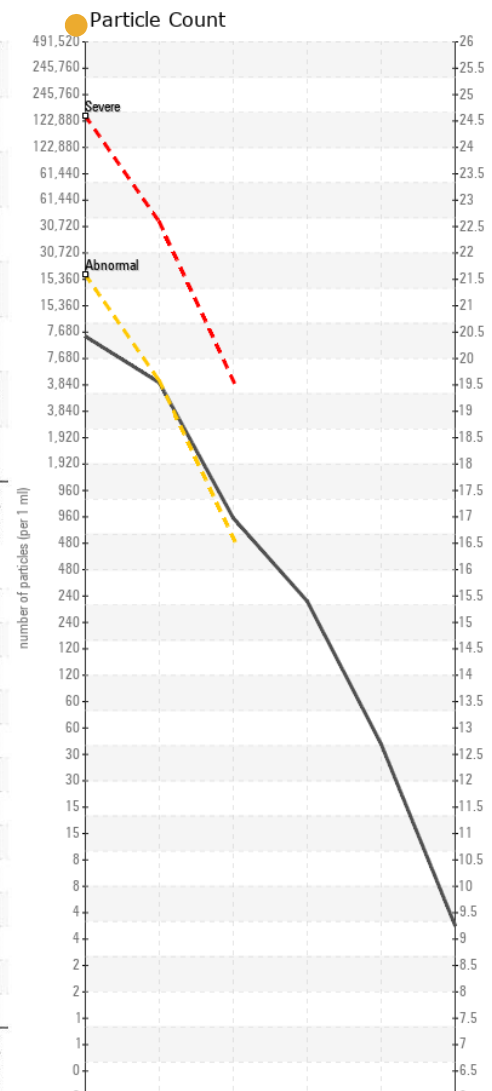
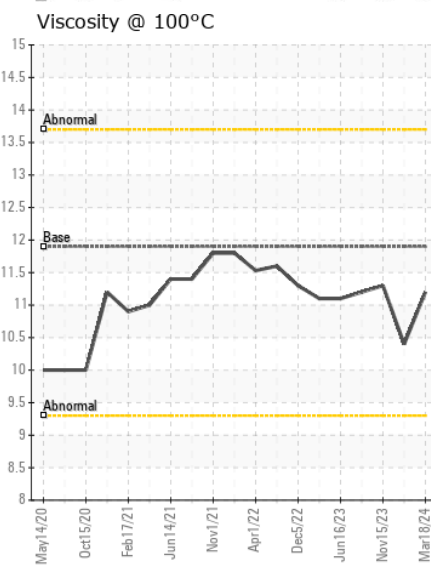
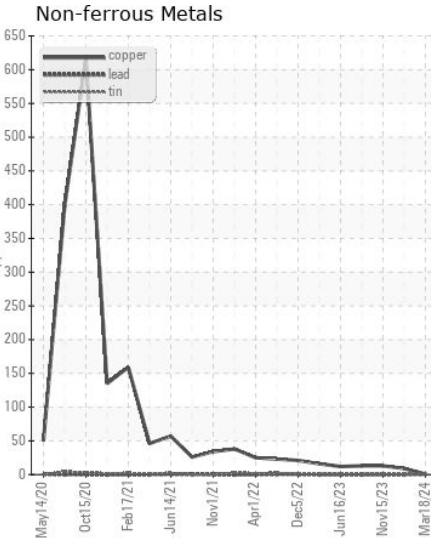
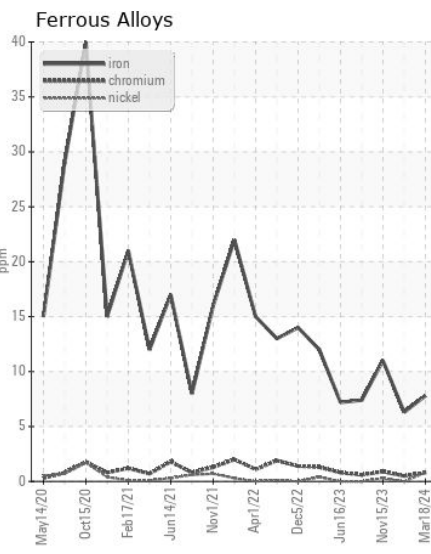
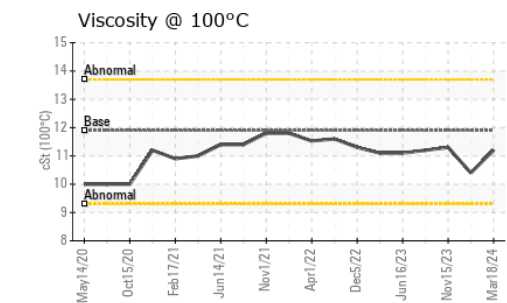
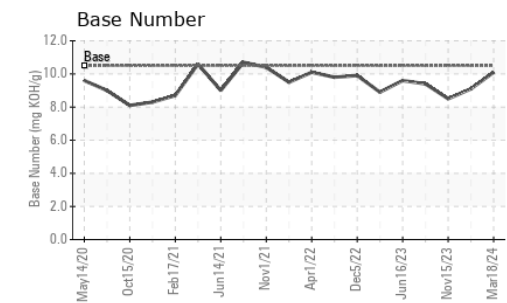
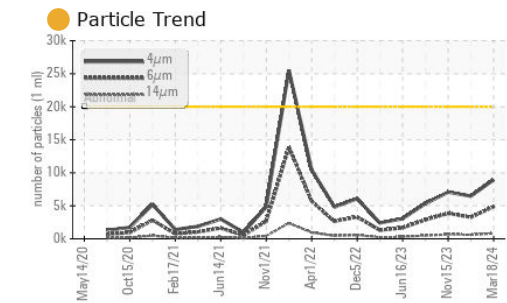
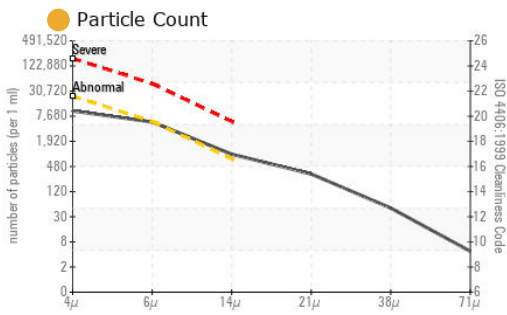
There is a moderate amount of particulates present in the oil.

| | | | | | | |
|------------------|----------|--------------|-----------|-----------------|----------|----------|
| Silicon | ppm | ASTM D5185m | >25 | 7 | 5 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 21 | 11 |
| Fuel | | WC Method | >5 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.2 | 0.2 | 0.4 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 5.8 | 6.3 | 7.9 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.6 | 21.6 | 22.0 |
| Particles >4µm | | ASTM D7647 | >20000 | 8943 | 6464 | 7073 |
| Particles >6µm | | ASTM D7647 | >5000 | 4872 | 3251 | 3853 |
| Particles >14µm | | ASTM D7647 | >640 | 829 | 599 | 656 |
| Particles >21µm | | ASTM D7647 | >160 | 279 | 202 | 221 |
| Particles >38µm | | ASTM D7647 | >40 | 43 | 31 | 34 |
| Particles >71µm | | ASTM D7647 | >10 | 4 | 3 | 3 |
| Oil Cleanliness | | ISO 4406 (c) | >21/19/16 | 20/19/17 | 20/19/16 | 20/19/17 |
| 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 |

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.

| | | | | | | |
|------------------|----------|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 9 | 10 | 2 |
| Boron | ppm | ASTM D5185m | | 26 | 48 | 32 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 30 | 51 | 48 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 333 | 524 | 465 |
| Calcium | ppm | ASTM D5185m | | 1112 | 1615 | 1695 |
| Phosphorus | ppm | ASTM D5185m | | 459 | 758 | 676 |
| Zinc | ppm | ASTM D5185m | | 630 | 933 | 927 |
| Sulfur | ppm | ASTM D5185m | | 1780 | 2521 | 2140 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 19.7 | 19.3 | 21.0 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | 10.5 | 10.1 | 9.1 | 8.5 |
| Visc @ 100°C | cSt | ASTM D445 | 11.9 | 11.2 | 10.4 | 11.3 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : WC0918640 **Received** : 20 Mar 2024
Lab Number : 06123524 **Tested** : 21 Mar 2024
Unique Number : 10937675 **Diagnosed** : 22 Mar 2024 - Jonathan Hester
Test Package : CONST (Additional Tests: PrtCount, TBN)

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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)