MOB I VOLVO

# OIL ANALYSIS REPORT

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

Area
**[8-399074]**
Machine Id
**16-8114**
Component
**Diesel Engine**
Fluid
**DIESEL ENGINE OIL SAE 40 (--- GAL)**

## RECOMMENDATION

Resample at the next service interval to monitor.

## WEAR

All component wear rates are normal.

## CONTAMINATION

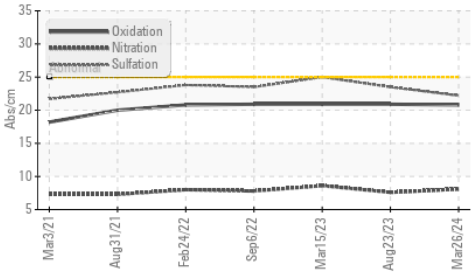
There is no indication of any contamination in the oil.

## FLUID CONDITION

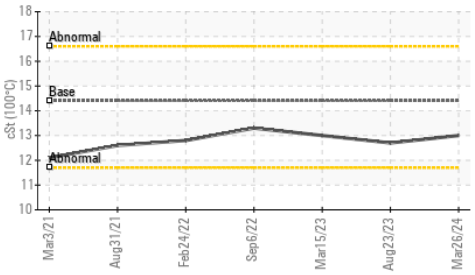
The condition of the oil is acceptable for the time in service.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | VCP393038 | VCP394501 | VCP392347 |
| Sample Date | | Client Info | | 26 Mar 2024 | 23 Aug 2023 | 15 Mar 2023 |
| Machine Age | hrs | Client Info | | 3435 | 2952 | 2536 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |
| Iron | ppm | ASTM D5185(m) | >100 | 14 | 11 | 16 |
| Chromium | ppm | ASTM D5185(m) | >10 | <1 | <1 | 1 |
| Nickel | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Titanium | ppm | ASTM D5185(m) | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185(m) | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185(m) | >10 | 5 | 3 | 6 |
| Lead | ppm | ASTM D5185(m) | >20 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185(m) | >15 | 1 | 1 | 2 |
| Tin | ppm | ASTM D5185(m) | >10 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185(m) | | 0 | 0 | 0 |
| Silicon | ppm | ASTM D5185(m) | >20 | 6 | 7 | 10 |
| Potassium | ppm | ASTM D5185(m) | >20 | <1 | <1 | <1 |
| Fuel | | WC Method | >6.0 | <1.0 | <1.0 | <1.0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | ASTM D7844* | >3 | 0.1 | 0.1 | 0 |
| Nitration | Abs/cm | ASTM D7624* | >20 | 8.1 | 7.6 | 8.6 |
| Sulfation | Abs/.1mm | ASTM D7415* | >30 | 22.2 | 23.5 | 25.0 |
| Emulsified Water | scalar | Visual* | >0.1 | NEG | NEG | NEG |
| Sodium | ppm | ASTM D5185(m) | >216 | 3 | 3 | 3 |
| Boron | ppm | ASTM D5185(m) | 250 | 39 | 41 | 39 |
| Barium | ppm | ASTM D5185(m) | 10 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185(m) | 100 | 41 | 40 | 44 |
| Manganese | ppm | ASTM D5185(m) | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185(m) | 450 | 517 | 517 | 522 |
| Calcium | ppm | ASTM D5185(m) | 3000 | 1734 | 1700 | 1844 |
| Phosphorus | ppm | ASTM D5185(m) | 1150 | 939 | 986 | 1050 |
| Zinc | ppm | ASTM D5185(m) | 1350 | 1110 | 1093 | 1125 |
| Sulfur | ppm | ASTM D5185(m) | 4250 | 2436 | 2451 | 2544 |
| Oxidation | Abs/.1mm | ASTM D7414* | >25 | 20.8 | 20.9 | 20.9 |
| Visc @ 100°C | cSt | ASTM D7279(m) | 14.4 | 13.0 | 12.7 | 13.0 |

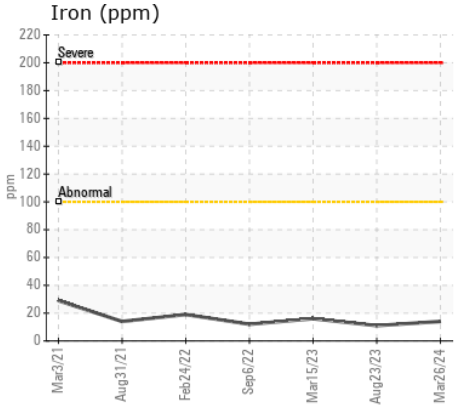
FT-IR (Direct Trend)



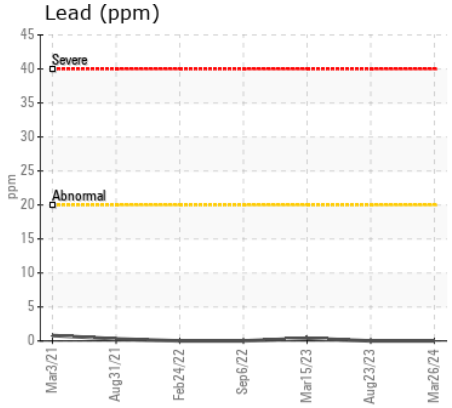

Viscosity @ 100°C



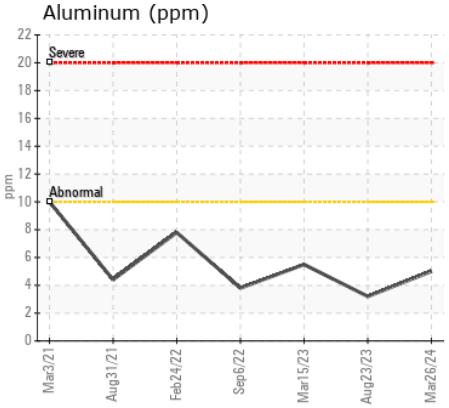

Iron (ppm)



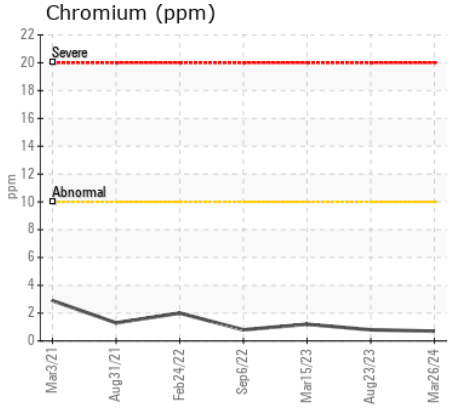

Lead (ppm)



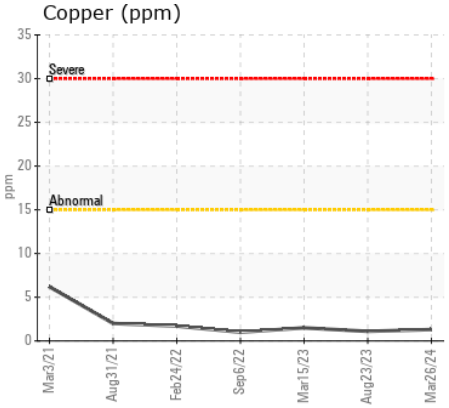

Aluminum (ppm)



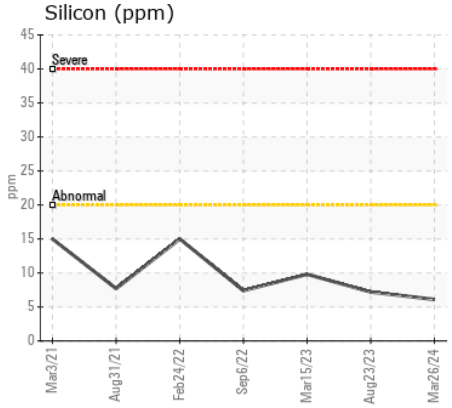

Chromium (ppm)



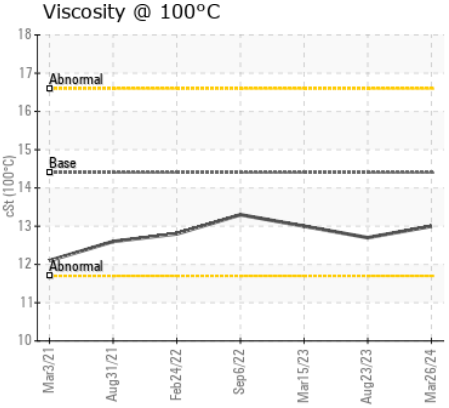

Copper (ppm)



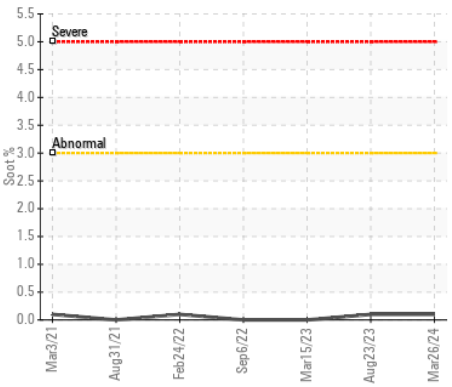

Silicon (ppm)




Viscosity @ 100°C




Soot %




ISO 17025:2017 Accredited Laboratory

**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9
**Sample No.** : VCP393038
**Lab Number** : 02627843
**Unique Number** : 5760975
**Test Package** : MOB 1

**Received** : 10 Apr 2024
**Tested** : 10 Apr 2024
**Diagnosed** : 10 Apr 2024 - Wes Davis

*To discuss this sample report, contact Customer Service at 1-800-268-2131.*
*Test denoted (*) outside scope of accreditation, (m) method modified, (e) tested at external lab.*
*Validity of results and interpretation are based on the sample and information as supplied.*

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