



VOLVO

OIL ANALYSIS REPORT

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



Machine Id
VOLVO A40G 342608
Component
Bogie/Center Axle
Fluid
MOBIL MOBILUBE HD 80W90 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP416948 | VCP331553 | VCP405688 |
| Sample Date | | Client Info | | 13 Feb 2024 | 06 Nov 2023 | 21 Aug 2023 |
| Machine Age | hrs | Client Info | | 11353 | 10895 | 10330 |
| Oil Age | hrs | Client Info | | 458 | 1117 | 552 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changed | Changed | Not Changed |
| Filter Changed | | Client Info | | Not Changed | Not Changed | Not Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >900 | 25 | 39 | 22 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | <1 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >50 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >150 | <1 | 0 | 0 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | MODER | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

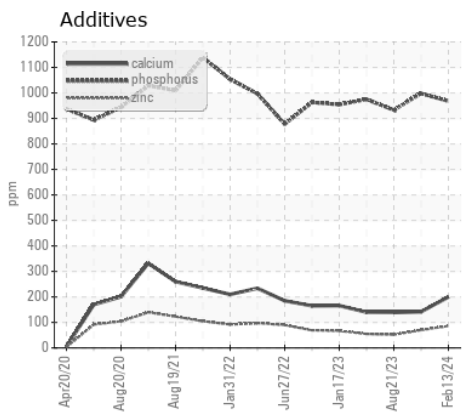
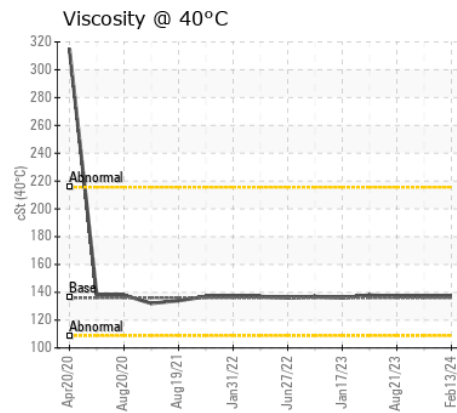
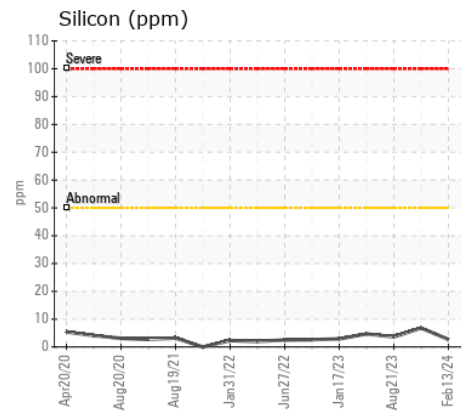
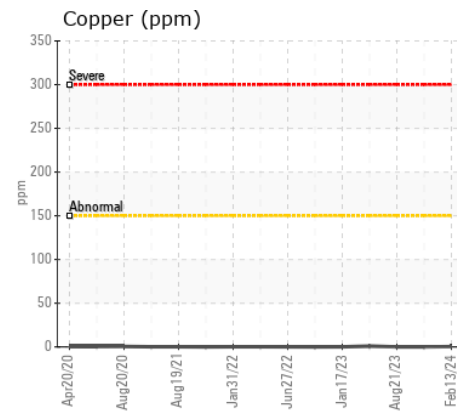
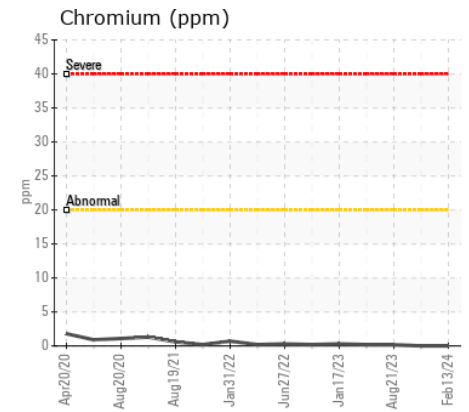
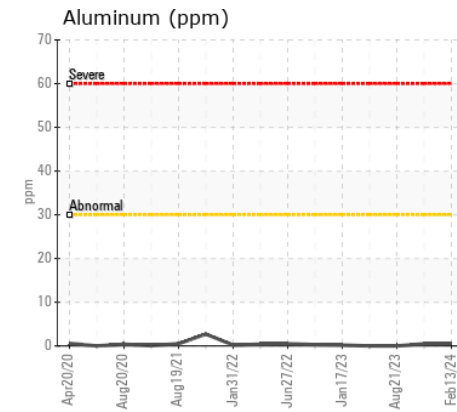
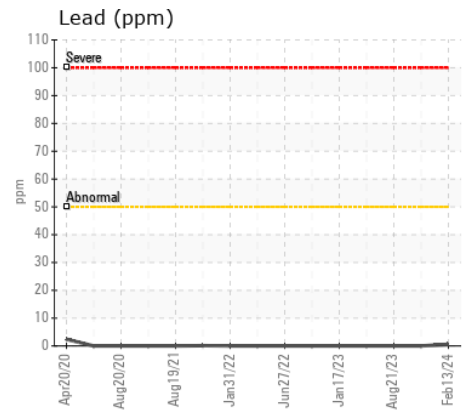
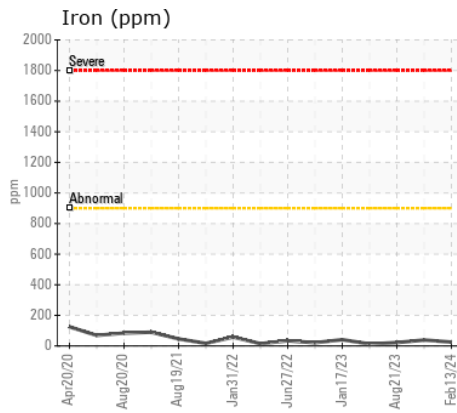
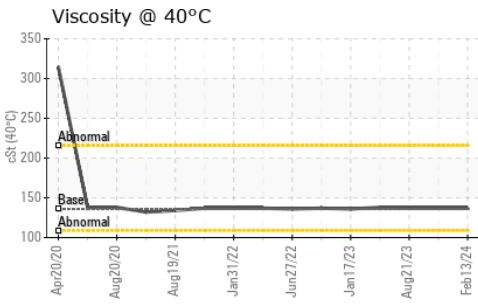
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 3 | 7 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 0 | <1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | LIGHT | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | LIGHT |
| 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 condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-----|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Boron | ppm | ASTM D5185m | | 173 | 174 | 209 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 1 | 1 | <1 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 12 | 12 | 15 |
| Calcium | ppm | ASTM D5185m | | 200 | 142 | 139 |
| Phosphorus | ppm | ASTM D5185m | | 968 | 998 | 933 |
| Zinc | ppm | ASTM D5185m | | 86 | 70 | 52 |
| Sulfur | ppm | ASTM D5185m | | 24591 | 23994 | 26671 |
| Visc @ 40°C | cSt | ASTM D445 | 136 | 137 | 137 | 137 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP416948 **Received** : 26 Feb 2024
Lab Number : 06100419 **Tested** : 27 Feb 2024
Unique Number : 10898649 **Diagnosed** : 27 Feb 2024 - Wes Davis
Test Package : MOB 1

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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)