



VOLVO

OIL ANALYSIS REPORT

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



Machine Id
VOLVO A40G 342374
Component
Diesel Engine
Fluid
MOBIL 15W40 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP396997 | VCP441993 | VCP441996 |
| Sample Date | | Client Info | | 11 Mar 2024 | 05 Feb 2024 | 19 Dec 2023 |
| Machine Age | hrs | Client Info | | 11321 | 11098 | 10915 |
| Oil Age | hrs | Client Info | | 223 | 183 | 58 |
| 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 |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >200 | 7 | 5 | 4 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >10 | <1 | <1 | 2 |
| Titanium | ppm | ASTM D5185m | | 0 | <1 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | 2 | 2 |
| Lead | ppm | ASTM D5185m | >40 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >20 | <1 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

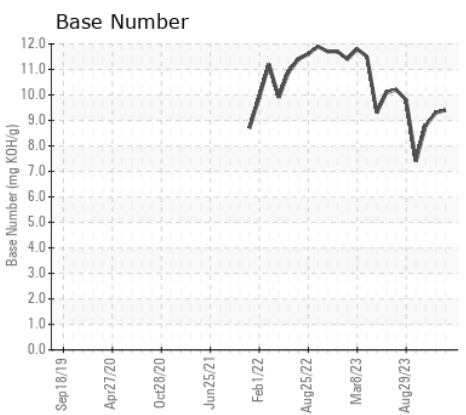
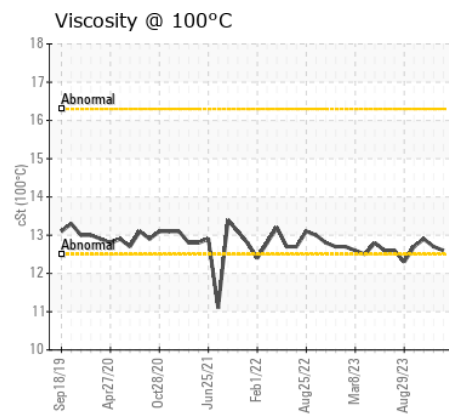
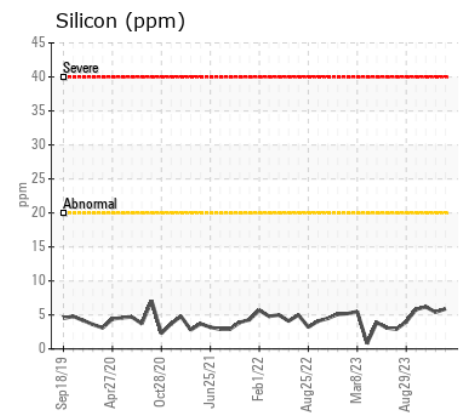
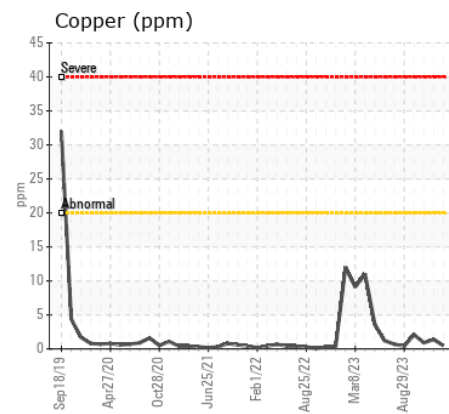
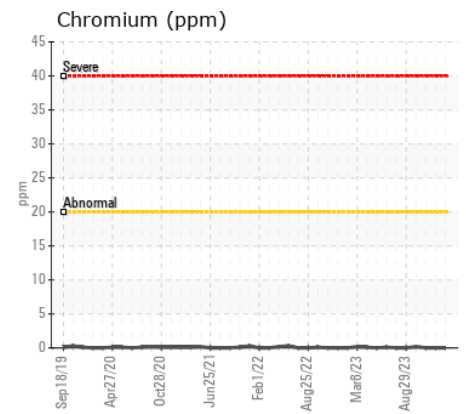
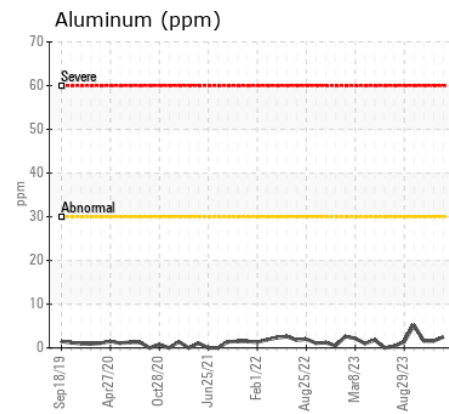
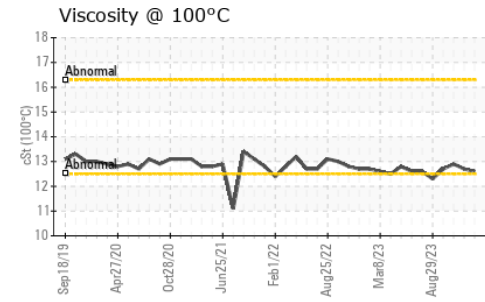
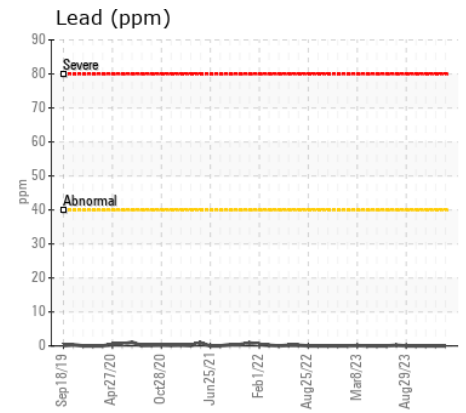
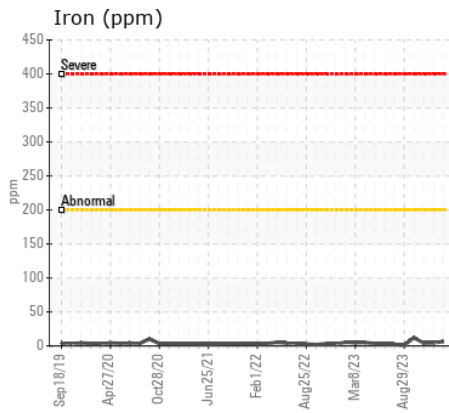
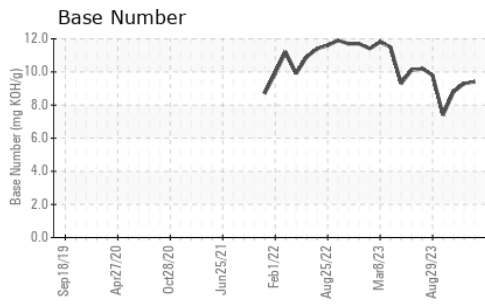
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >20 | 6 | 5 | 6 |
| Potassium | ppm | ASTM D5185m | >20 | 6 | 8 | 7 |
| Fuel | | WC Method | >3.0 | <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 | 0.1 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 6.5 | 6.2 | 6.1 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 21.1 | 20.5 | 19.7 |
| 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 | >118 | 9 | 7 | 7 |
| Boron | ppm | ASTM D5185m | | 69 | 85 | 98 |
| Barium | ppm | ASTM D5185m | | 0 | 12 | 12 |
| Molybdenum | ppm | ASTM D5185m | | 57 | 64 | 73 |
| Manganese | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | | 566 | 521 | 534 |
| Calcium | ppm | ASTM D5185m | | 1746 | 1497 | 1401 |
| Phosphorus | ppm | ASTM D5185m | | 839 | 795 | 757 |
| Zinc | ppm | ASTM D5185m | | 957 | 853 | 826 |
| Sulfur | ppm | ASTM D5185m | | 3353 | 3241 | 3184 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.5 | 17.5 | 16.6 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 9.4 | 9.3 | 8.8 |
| Visc @ 100°C | cSt | ASTM D445 | | 12.6 | 12.7 | 12.9 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP396997 **Received** : 20 Mar 2024
Lab Number : 06123402 **Tested** : 21 Mar 2024
Unique Number : 10937553 **Diagnosed** : 21 Mar 2024 - Wes Davis
Test Package : MOB 1 (Additional Tests: 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)