



VOLVO

OIL ANALYSIS REPORT

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



Area
[SPM714474-10]
 Machine Id
VOLVO A40G 341625
 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 | | VCP437724 | VCP442655 | VCP393578 |
| Sample Date | | Client Info | | 08 May 2024 | 11 Jan 2024 | 17 Mar 2023 |
| Machine Age | hrs | Client Info | | 9198 | 8515 | 7472 |
| Oil Age | hrs | Client Info | | 0 | 0 | 2015 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | N/A | N/A | Changed |
| Filter Changed | | Client Info | | Changed | Changed | Changed |
| Sample Status | | | | NORMAL | NORMAL | ATTENTION |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >100 | 5 | 8 | 13 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >2 | <1 | 1 | 2 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | >2 | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 2 | 3 | 3 |
| Lead | ppm | ASTM D5185m | >40 | <1 | 2 | 3 |
| Copper | ppm | ASTM D5185m | >330 | 2 | 4 | 2 |
| Tin | ppm | ASTM D5185m | >15 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

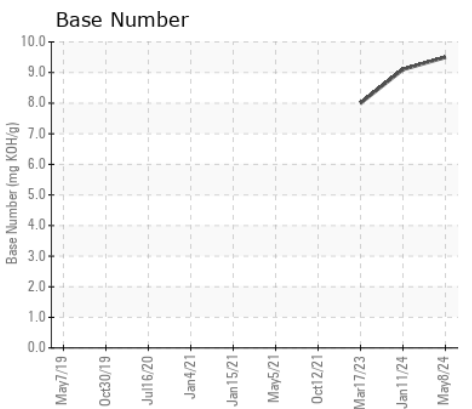
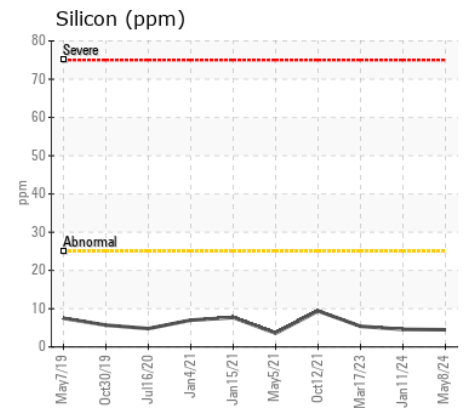
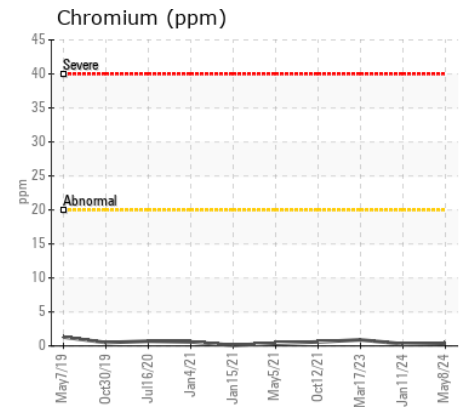
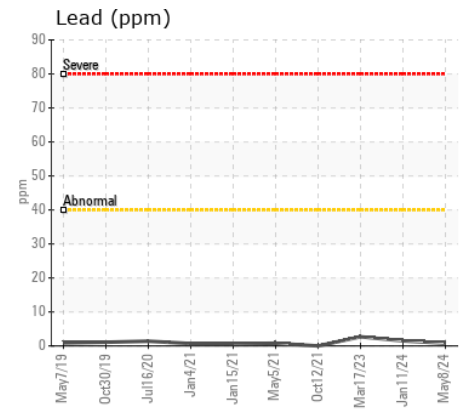
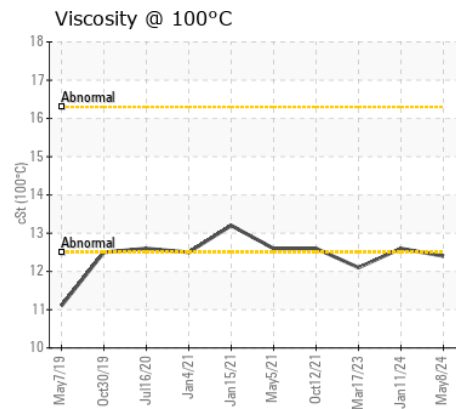
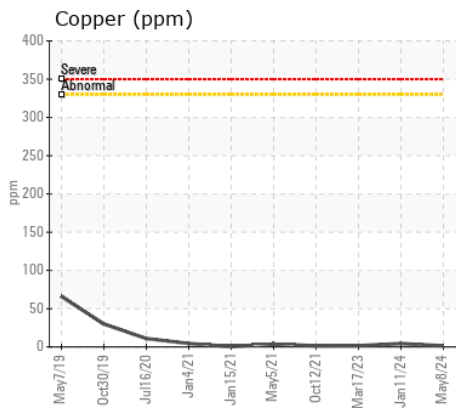
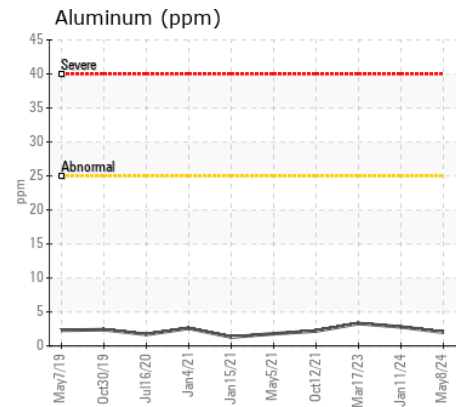
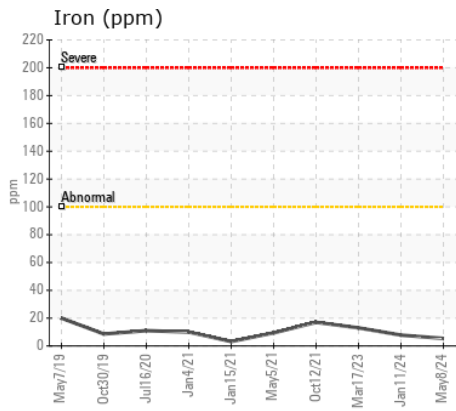
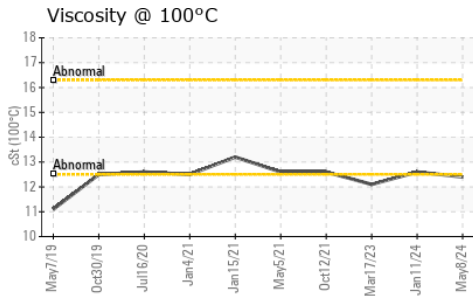
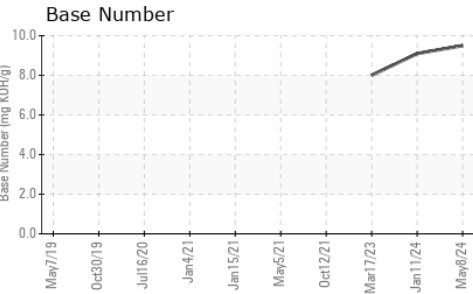
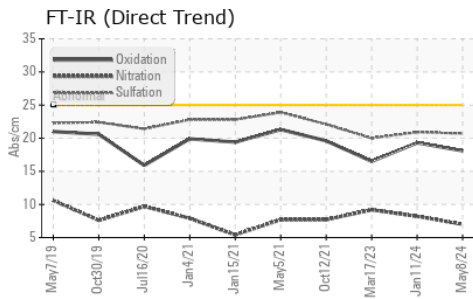
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|----------|-------------|-------|----------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >25 | 4 | 5 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 2 |
| Fuel | | WC Method | >6.0 | <1.0 | <1.0 | 1.5 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Glycol | | WC Method | | NEG | NEG | NEG |
| Soot % | % | *ASTM D7844 | >3 | 0.1 | 0.2 | 0.3 |
| Nitration | Abs/cm | *ASTM D7624 | >20 | 7.0 | 8.2 | 9.2 |
| Sulfation | Abs/.1mm | *ASTM D7415 | >30 | 20.7 | 20.9 | 20.0 |
| 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 | 0 | 2 | 4 |
| Boron | ppm | ASTM D5185m | | 36 | 27 | 7 |
| Barium | ppm | ASTM D5185m | | 2 | 0 | 2 |
| Molybdenum | ppm | ASTM D5185m | | 51 | 45 | 52 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | | 594 | 597 | 722 |
| Calcium | ppm | ASTM D5185m | | 1530 | 1557 | 1281 |
| Phosphorus | ppm | ASTM D5185m | | 1025 | 991 | 955 |
| Zinc | ppm | ASTM D5185m | | 1111 | 1147 | 1140 |
| Sulfur | ppm | ASTM D5185m | | 3253 | 3022 | 3002 |
| Oxidation | Abs/.1mm | *ASTM D7414 | >25 | 18.1 | 19.3 | 16.5 |
| Base Number (BN) | mg KOH/g | ASTM D2896 | | 9.5 | 9.1 | 8.0 |
| Visc @ 100°C | cSt | ASTM D445 | | 12.4 | 12.6 | 12.1 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP437724 **Received** : 13 May 2024
Lab Number : 06176850 **Tested** : 14 May 2024
Unique Number : 11022903 **Diagnosed** : 14 May 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)