



VOLVO

OIL ANALYSIS REPORT

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



Area
[SWO-068706]
 Machine Id
VOLVO A45G 352134
 Component
Front Axle
 Fluid
{not provided} (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP438026 | VCP428964 | VCP431900 |
| Sample Date | | Client Info | | 04 Jan 2024 | 22 Nov 2023 | 26 Sep 2023 |
| Machine Age | hrs | Client Info | | 8960 | 8724 | 8228 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Chngd | Not Chngd | Changed |
| Filter Changed | | Client Info | | Not Chngd | N/A | Not Chngd |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >900 | 36 | 24 | 75 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | 0 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 1 | <1 | 2 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | 1 | 5 |
| Lead | ppm | ASTM D5185m | >50 | <1 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >150 | 50 | 38 | 114 |
| Tin | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

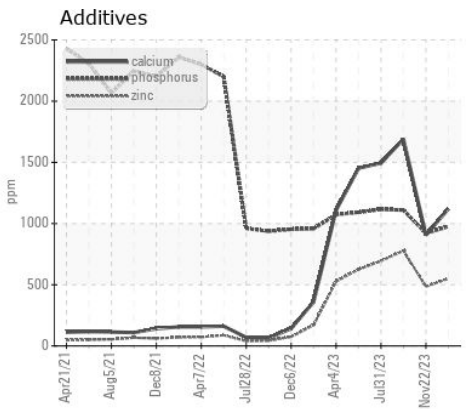
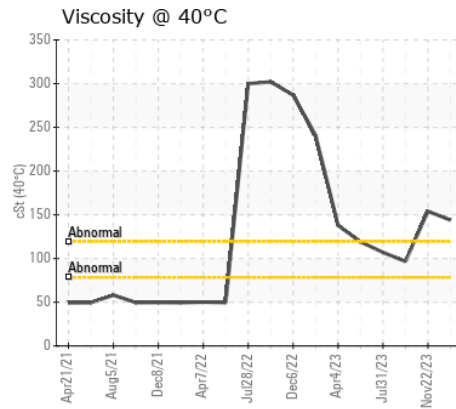
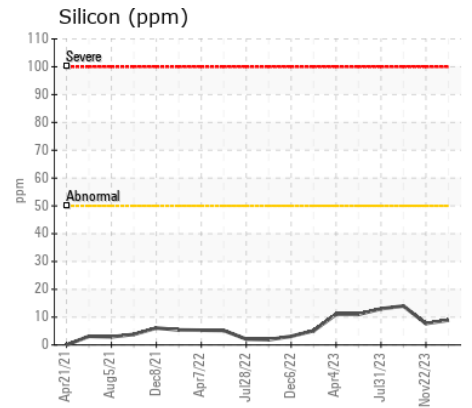
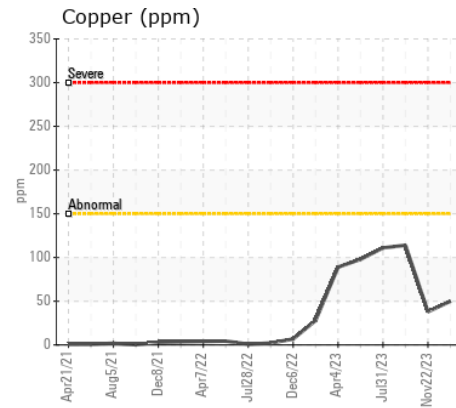
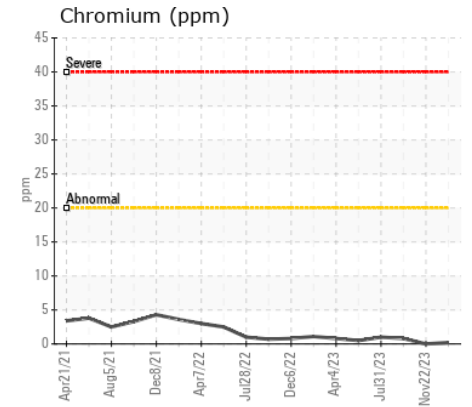
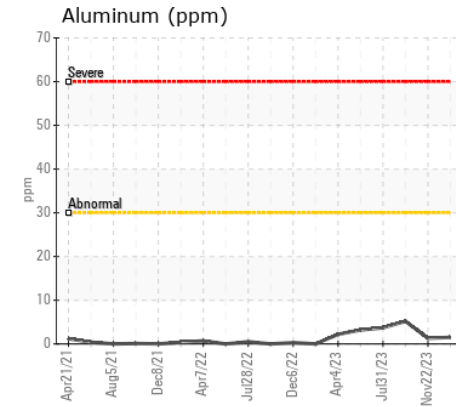
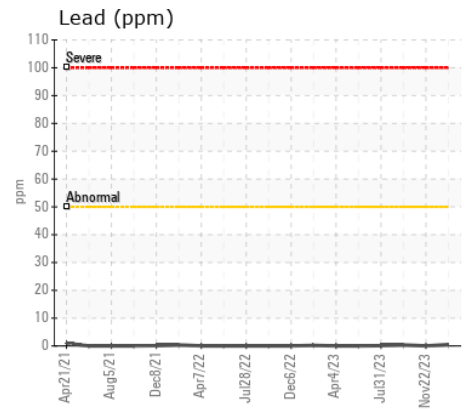
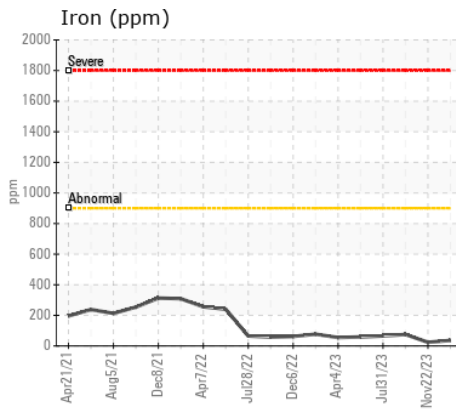
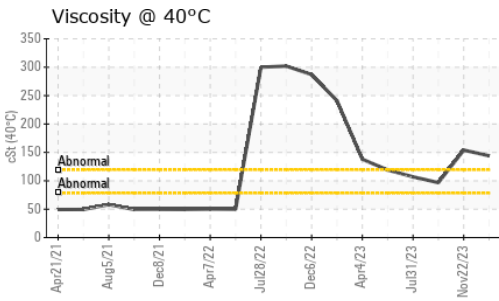
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 9 | 8 | 14 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | <1 | 0 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| 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 condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|--|--------------|-------|-------|
| Sodium | ppm | ASTM D5185m | | 0 | <1 | 2 |
| Boron | ppm | ASTM D5185m | | 117 | 93 | 148 |
| Barium | ppm | ASTM D5185m | | 2 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 8 | 6 | 4 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 2 |
| Magnesium | ppm | ASTM D5185m | | 51 | 50 | 33 |
| Calcium | ppm | ASTM D5185m | | 1120 | 906 | 1690 |
| Phosphorus | ppm | ASTM D5185m | | 977 | 921 | 1110 |
| Zinc | ppm | ASTM D5185m | | 550 | 485 | 778 |
| Sulfur | ppm | ASTM D5185m | | 16521 | 15380 | 12596 |
| Visc @ 40°C | cSt | ASTM D445 | | 144 | 154 | 96.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP438026 **Received** : 12 Jan 2024
Lab Number : 06059608 **Diagnosed** : 16 Jan 2024
Unique Number : 10830990 **Diagnostician** : Jonathan Hester
Test Package : MOB 1

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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)