



VOLVO

OIL ANALYSIS REPORT

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



Area
[SWO-071765]
 Machine Id
VOLVO A45G 342546
 Component
Brake
 Fluid
VOLVO WB 101 (--- GAL)

RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP450907 | VCP432958 | VCP417742 |
| Sample Date | | Client Info | | 07 May 2024 | 04 Oct 2023 | 19 Jun 2023 |
| Machine Age | hrs | Client Info | | 8542 | 8046 | 7553 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Changed |
| Sample Status | | | | ABNORMAL | ABNORMAL | NORMAL |

WEAR

The copper level is abnormal. All other component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|-------|------|
| Iron | ppm | ASTM D5185m | >50 | 31 | 25 | 24 |
| Chromium | ppm | ASTM D5185m | >20 | 1 | <1 | 1 |
| Nickel | ppm | ASTM D5185m | >10 | 5 | 5 | 4 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 2 | 0 | 4 |
| Lead | ppm | ASTM D5185m | >50 | <1 | <1 | 2 |
| Copper | ppm | ASTM D5185m | >200 | ▲ 258 | ▲ 235 | 191 |
| Tin | ppm | ASTM D5185m | >20 | <1 | 0 | <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

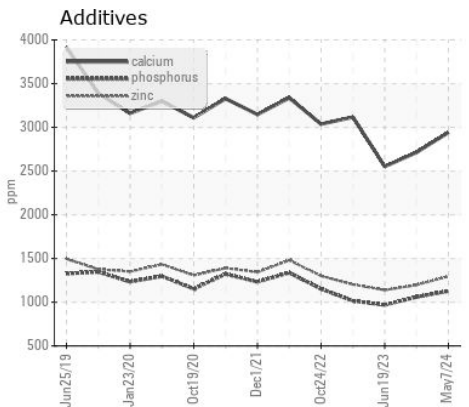
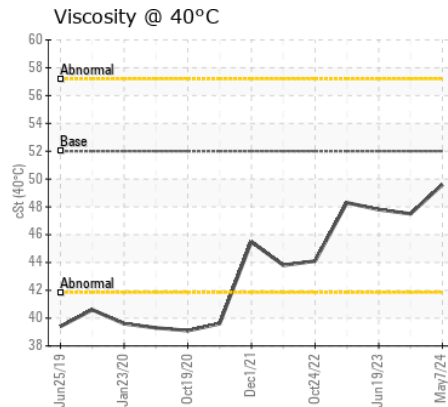
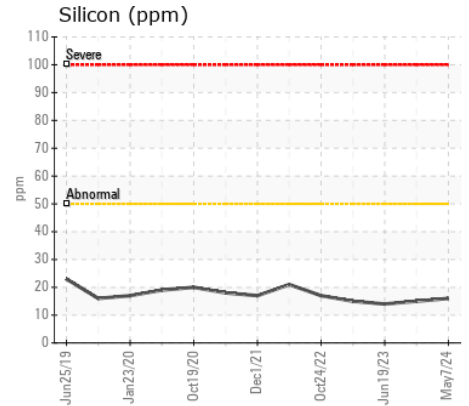
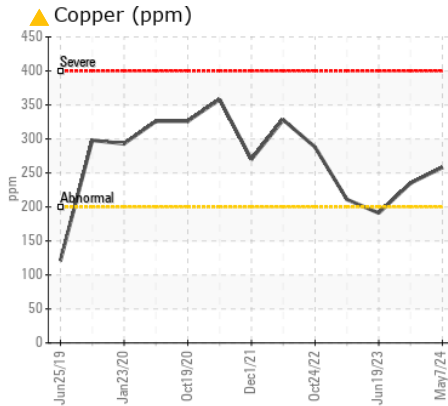
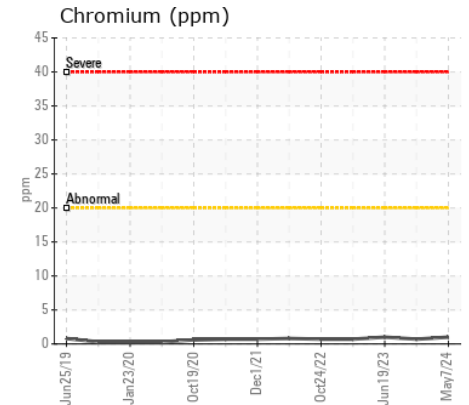
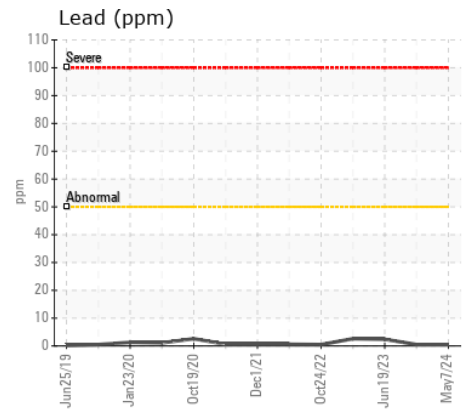
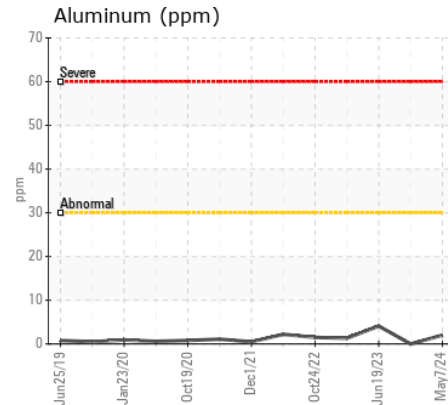
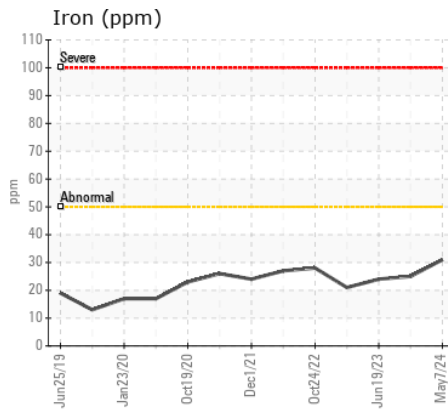
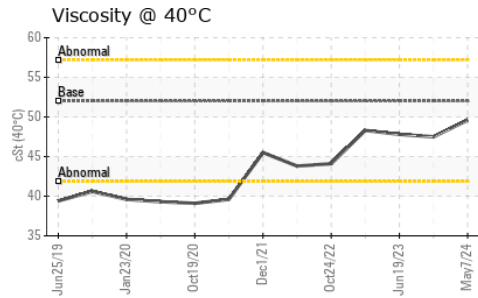
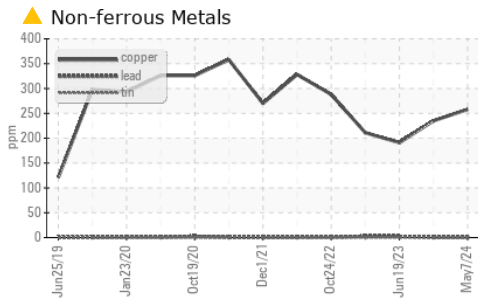
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 16 | 15 | 14 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 2 | 1 |
| 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 fluid is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|------|-------------|------|------|
| Sodium | ppm | ASTM D5185m | | 3 | 2 | 6 |
| Boron | ppm | ASTM D5185m | 100 | 102 | 77 | 78 |
| Barium | ppm | ASTM D5185m | 0 | 2 | 1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0 | 4 | 4 | 3 |
| Manganese | ppm | ASTM D5185m | | 2 | 1 | 2 |
| Magnesium | ppm | ASTM D5185m | 0 | 28 | 25 | 29 |
| Calcium | ppm | ASTM D5185m | 3800 | 2941 | 2714 | 2552 |
| Phosphorus | ppm | ASTM D5185m | 1200 | 1128 | 1060 | 968 |
| Zinc | ppm | ASTM D5185m | 1500 | 1296 | 1197 | 1139 |
| Sulfur | ppm | ASTM D5185m | 6500 | 5761 | 4474 | 4110 |
| Visc @ 40°C | cSt | ASTM D445 | 52.0 | 49.6 | 47.5 | 47.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP450907
Lab Number : 06175887
Unique Number : 11021940
Test Package : MOB 1

Received : 10 May 2024
Tested : 13 May 2024
Diagnosed : 14 May 2024 - Sean Felton

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207

Contact: STEPHANI BRITTON
 sbritton@saiia.com; doug.bogart@wearcheck.com

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)

T: (205)943-2268

F: (205)943-2269