



OIL ANALYSIS REPORT

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

Area

[SWO-071763]

Machine Id

VOLVO A60H 340039

Component

Drop Box

Fluid

GEAR OIL SAE 80W140 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | VCP449652 | VCP441434 | VCP428988 |
| Sample Date | | Client Info | | 07 May 2024 | 18 Jan 2024 | 27 Sep 2023 |
| Machine Age | hrs | Client Info | | 9022 | 8521 | 8052 |
| 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 | >400 | 8 | 6 | 12 |
| Chromium | ppm | ASTM D5185m | >4 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >3 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >15 | 2 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >20 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 1 | 0 | 2 |
| Tin | ppm | ASTM D5185m | >3 | <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

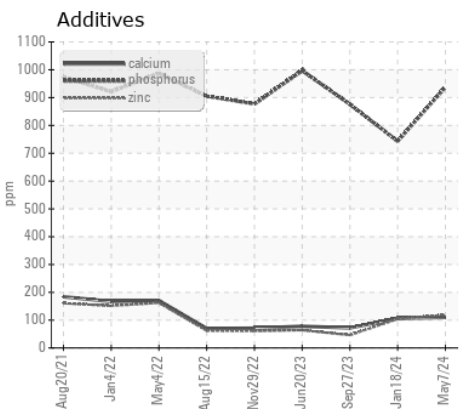
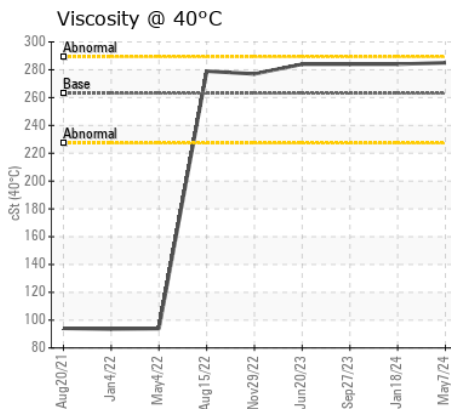
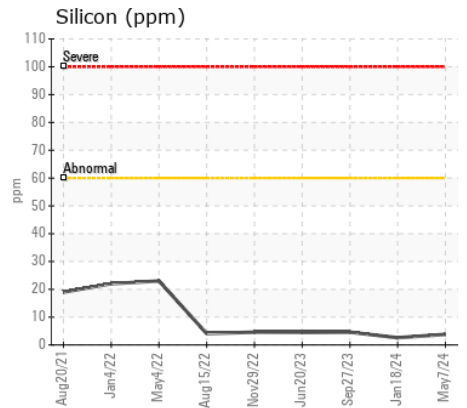
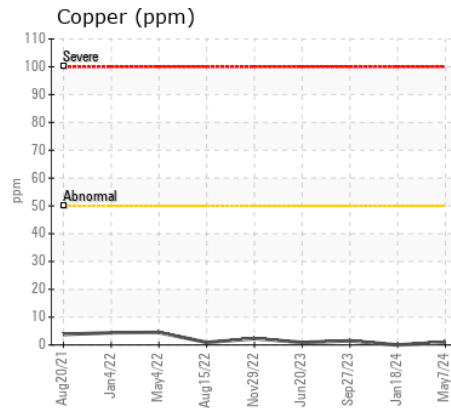
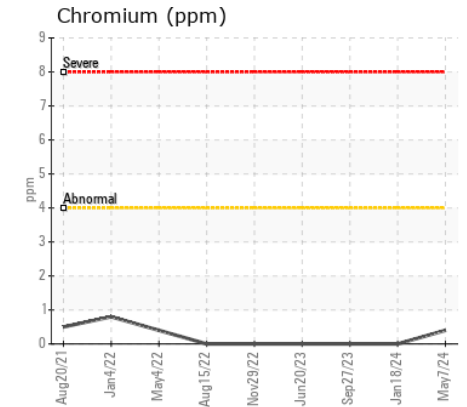
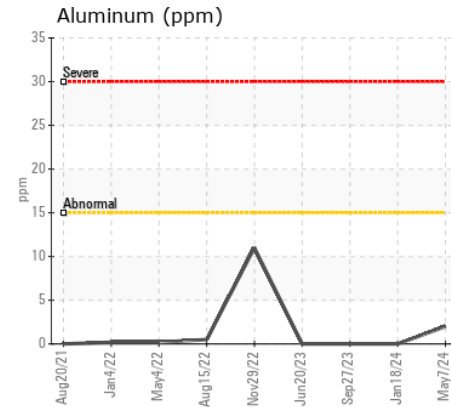
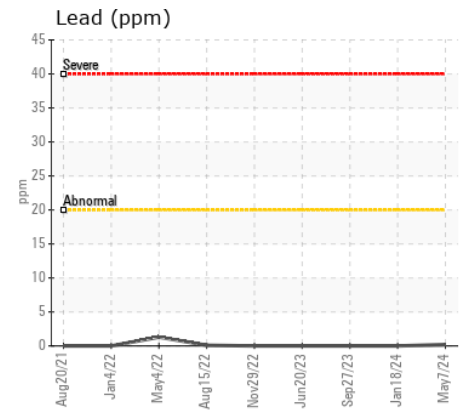
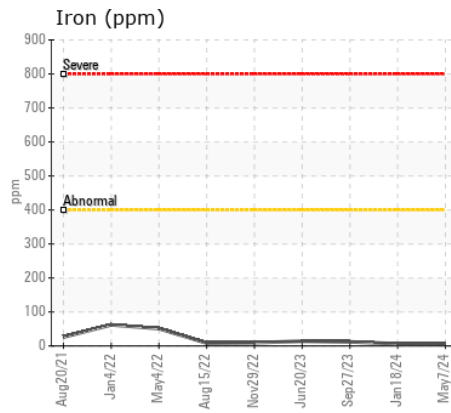
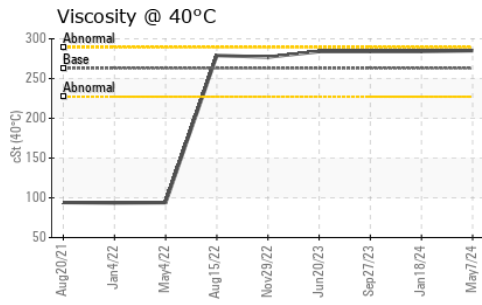
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon | ppm | ASTM D5185m | >60 | 4 | 3 | 5 |
| Potassium | ppm | ASTM D5185m | >20 | 2 | 1 | 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 oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-------|-------|-------|-------|
| Sodium | ppm | ASTM D5185m | | <1 | 4 | 5 |
| Boron | ppm | ASTM D5185m | 400 | 132 | 115 | 99 |
| Barium | ppm | ASTM D5185m | 200 | 2 | <1 | 0 |
| Molybdenum | ppm | ASTM D5185m | 12 | 9 | 6 | 3 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 12 | 33 | 31 | 13 |
| Calcium | ppm | ASTM D5185m | 150 | 110 | 106 | 72 |
| Phosphorus | ppm | ASTM D5185m | 1650 | 937 | 743 | 876 |
| Zinc | ppm | ASTM D5185m | 125 | 119 | 104 | 46 |
| Sulfur | ppm | ASTM D5185m | 22500 | 22312 | 16510 | 18361 |
| Visc @ 40°C | cSt | ASTM D445 | 263 | 285 | 284 | 284 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP449652
Lab Number : 06175903
Unique Number : 11021956
Test Package : MOB 1

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

SAIIA CONSTRUCTION LLC
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 BIRMINGHAM, AL
 US 35207

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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)

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