



VOLVO

OIL ANALYSIS REPORT

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

Area
[592764 HERC]

Machine Id
VOLVO 310708

Component
Swing Drive

Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

We advise that you check for the source of water entry. We recommend that you drain the oil from the component if this has not already been done. We recommend an early resample to monitor this condition. Please note that there was too much water present in the oil to perform a viscosity test.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number | | Client Info | | VCP443811 | --- | --- |
| Sample Date | | Client Info | | 01 Jul 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 3516 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | N/A | --- | --- |
| Sample Status | | | | SEVERE | --- | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|-----|-----|
| Iron | ppm | ASTM D5185m | >400 | 8 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 0 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | --- | --- |
| Lead | ppm | ASTM D5185m | >50 | 0 | --- | --- |
| Copper | ppm | ASTM D5185m | >200 | <1 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |

CONTAMINATION

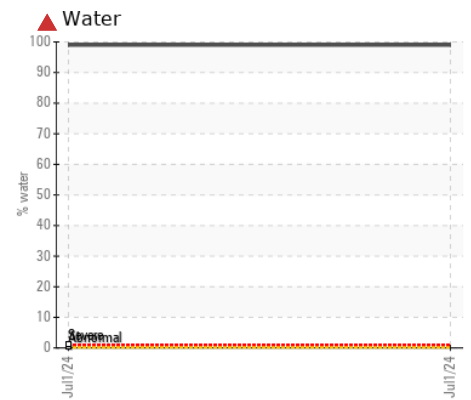
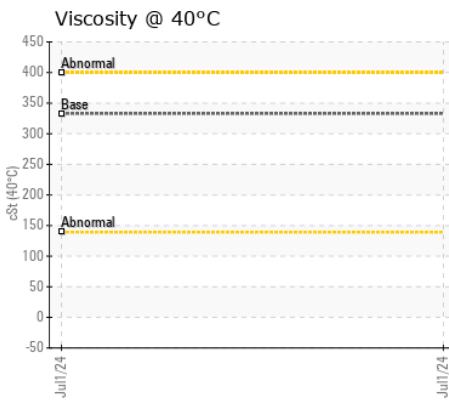
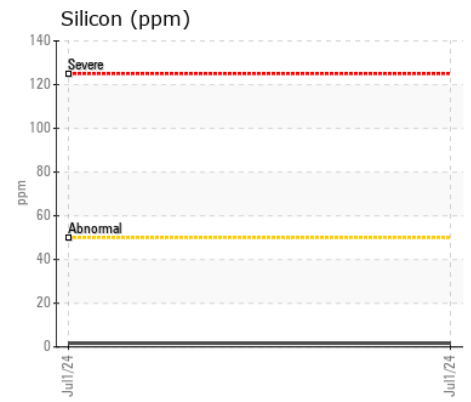
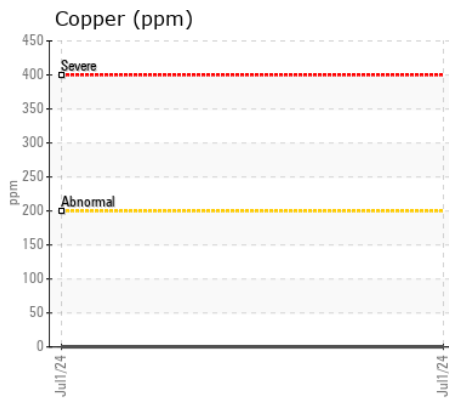
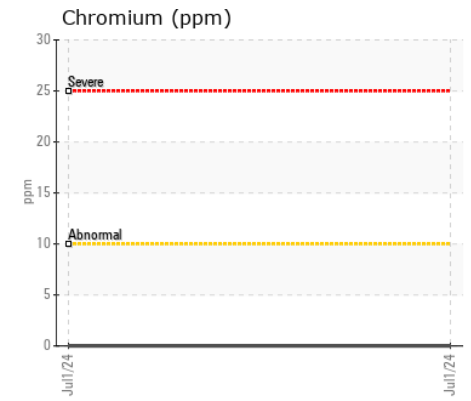
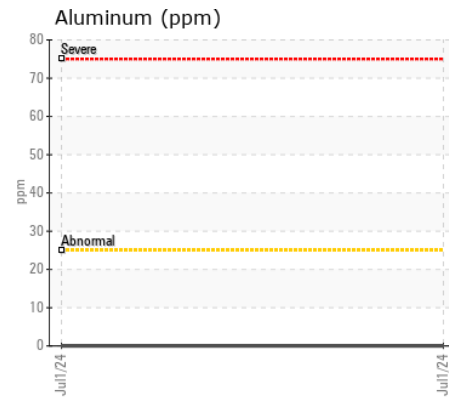
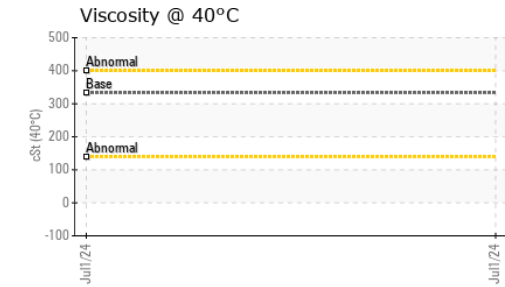
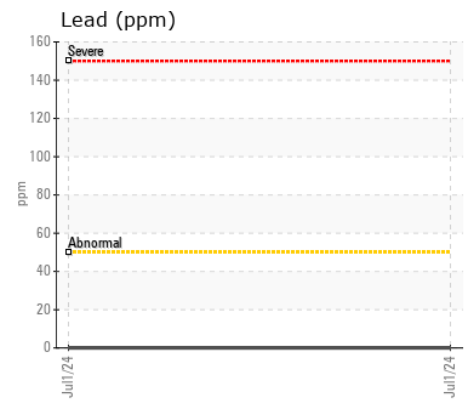
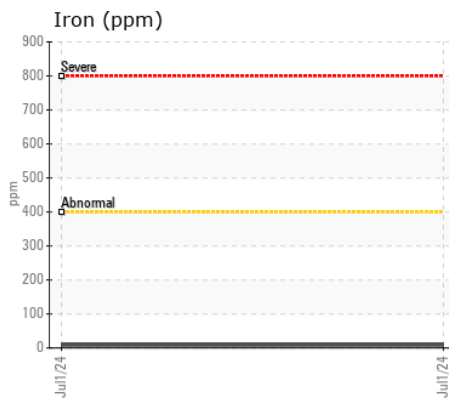
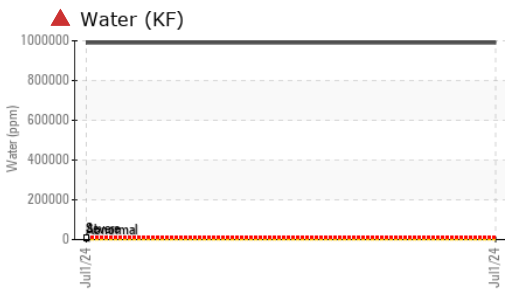
Sample consists almost entirely of free water. There is a high concentration of water present in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|----------|-----|-----|
| Silicon | ppm | ASTM D5185m | >50 | 2 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | --- | --- |
| Water | % | ASTM D6304 | >0.2 | ▲ 99.0 | --- | --- |
| ppm Water | ppm | ASTM D6304 | >2000 | ▲ 990000 | --- | --- |
| Silt | scalar | *Visual | NONE | NONE | --- | --- |
| Debris | scalar | *Visual | NONE | NONE | --- | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | --- | --- |
| Appearance | scalar | *Visual | NORML | NORML | --- | --- |
| Odor | scalar | *Visual | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | --- | --- |

FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

| | | | | | | |
|------------|-----|-------------|-------|-----|-----|-----|
| Sodium | ppm | ASTM D5185m | | <1 | --- | --- |
| Boron | ppm | ASTM D5185m | 111 | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 0.0 | <1 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0.9 | 0 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0.0 | <1 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 39 | 0 | --- | --- |
| Calcium | ppm | ASTM D5185m | 93 | 7 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 920 | 124 | --- | --- |
| Zinc | ppm | ASTM D5185m | 104 | 6 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 20179 | 520 | --- | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP443811 **Received** : 05 Jul 2024
Lab Number : 06229003 **Tested** : 09 Jul 2024
Unique Number : 11112496 **Diagnosed** : 09 Jul 2024 - Jonathan Hester
Test Package : MOB 1 (Additional Tests: KF)

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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)