MOB I

VOLVO

# OIL ANALYSIS REPORT

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

Area
**[592764 HERC]**
Machine Id
**VOLVO 310708**
Component
**Rear Right Final Drive**
Fluid
**VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)**

## RECOMMENDATION

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

## WEAR

Gear wear is indicated.

## CONTAMINATION

Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress.

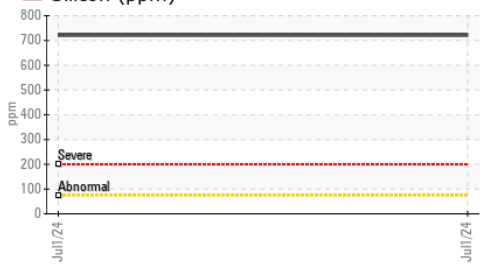
## FLUID CONDITION

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

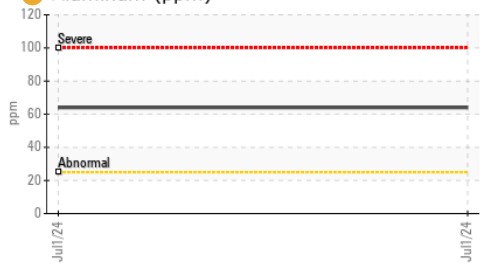
| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|---|---|---|---|---|---|---|
| Sample Number | | Client Info | | VCP443809 | --- | --- |
| Sample Date | | Client Info | | 01 Jul 2024 | --- | --- |
| Machine Age | hrs | Client Info | | 3516 | --- | --- |
| Oil Age | hrs | Client Info | | 0 | --- | --- |
| Filter Age | hrs | Client Info | | 0 | --- | --- |
| Oil Changed | | Client Info | | Not Changd | --- | --- |
| Filter Changed | | Client Info | | Not Changd | --- | --- |
| Sample Status | | | | SEVERE | --- | --- |
| Iron | ppm | ASTM D5185m | >500 | ▲ 4366 | --- | --- |
| Chromium | ppm | ASTM D5185m | >10 | ▲ 78 | --- | --- |
| Nickel | ppm | ASTM D5185m | >10 | 6 | --- | --- |
| Titanium | ppm | ASTM D5185m | | 5 | --- | --- |
| Silver | ppm | ASTM D5185m | | 0 | --- | --- |
| Aluminum | ppm | ASTM D5185m | >25 | ● 64 | --- | --- |
| Lead | ppm | ASTM D5185m | >25 | <1 | --- | --- |
| Copper | ppm | ASTM D5185m | >50 | 8 | --- | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | --- | --- |
| Vanadium | ppm | ASTM D5185m | | <1 | --- | --- |
| White Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | --- | --- |
| Silicon | ppm | ASTM D5185m | >75 | ▲ 721 | --- | --- |
| Potassium | ppm | ASTM D5185m | >20 | 5 | --- | --- |
| Water | | WC Method | >0.2 | NEG | --- | --- |
| 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 | --- | --- |
| Sodium | ppm | ASTM D5185m | | 6 | --- | --- |
| Boron | ppm | ASTM D5185m | 111 | 0 | --- | --- |
| Barium | ppm | ASTM D5185m | 0.0 | 2 | --- | --- |
| Molybdenum | ppm | ASTM D5185m | 0.9 | 8 | --- | --- |
| Manganese | ppm | ASTM D5185m | 0.0 | 37 | --- | --- |
| Magnesium | ppm | ASTM D5185m | 39 | 10 | --- | --- |
| Calcium | ppm | ASTM D5185m | 93 | 66 | --- | --- |
| Phosphorus | ppm | ASTM D5185m | 920 | 393 | --- | --- |
| Zinc | ppm | ASTM D5185m | 104 | 28 | --- | --- |
| Sulfur | ppm | ASTM D5185m | 20179 | 20000 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445 | 333 | 219 | --- | --- |

Ferrous Alloys

Silicon (ppm)

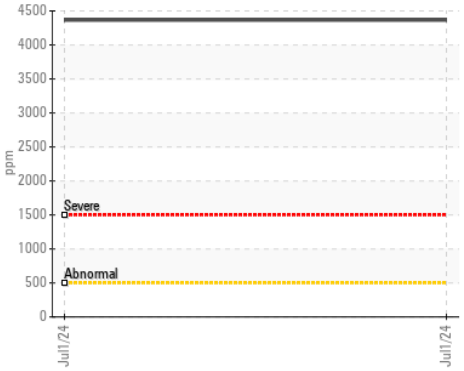



Aluminum (ppm)

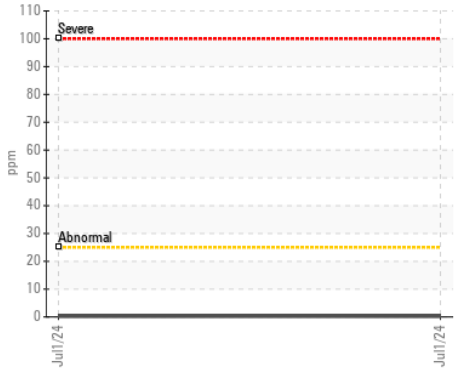



Viscosity @ 40°C

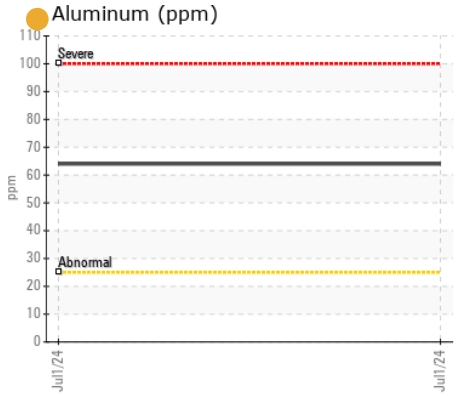
Iron (ppm)



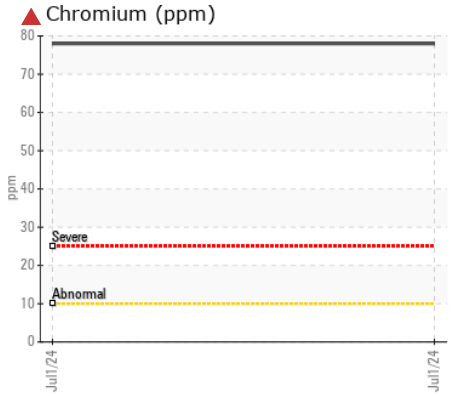

Lead (ppm)



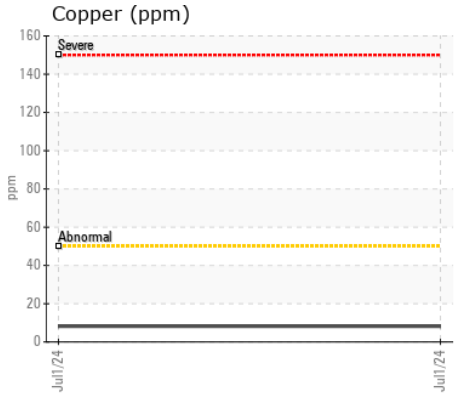

Aluminum (ppm)



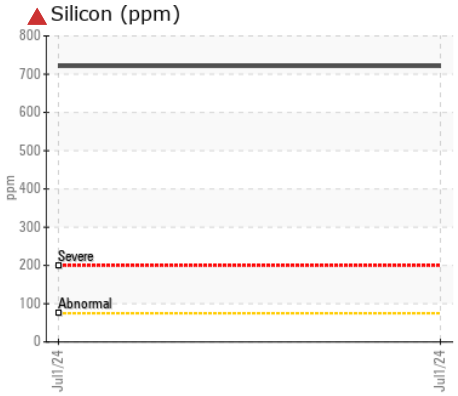

Chromium (ppm)



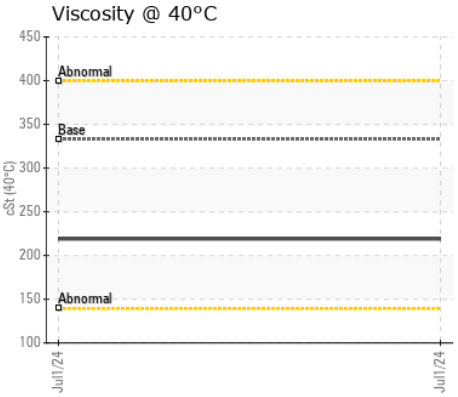

Copper (ppm)



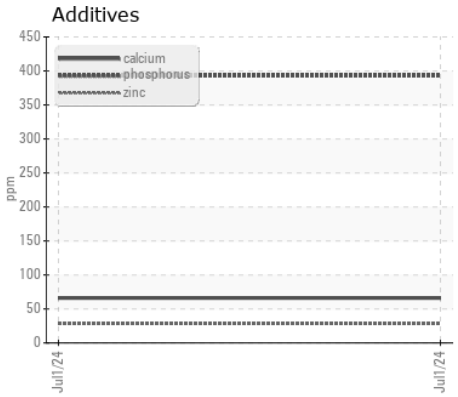

Silicon (ppm)




Viscosity @ 40°C




Additives




Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513
**Sample No.** : VCP443809
**Lab Number** : 06229005
**Unique Number** : 11112498
**Test Package** : MOB 1

**Received** : 05 Jul 2024
**Tested** : 09 Jul 2024
**Diagnosed** : 09 Jul 2024 - Sean Felton

*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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