



VOLVO

OIL ANALYSIS REPORT

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



Area
[IMPORT AUTO]
 Machine Id
VOLVO EC220E 310953
 Component
Rear Left Final Drive
 Fluid
VOLVO PREMIUM GEAR OIL 85W-140 GL-5 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number | | Client Info | | VCP437841 | VCP337045 | --- |
| Sample Date | | Client Info | | 26 Feb 2024 | 20 Jul 2021 | --- |
| Machine Age | hrs | Client Info | | 3107 | 1253 | --- |
| Oil Age | hrs | Client Info | | 0 | 1253 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Not Changed | Not Changed | --- |
| Sample Status | | | | NORMAL | ABNORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|-------|--------------|-------|-----|
| Iron | ppm | ASTM D5185m | >6000 | 287 | ▲ 533 | --- |
| Chromium | ppm | ASTM D5185m | >60 | 2 | 7 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 1 | --- |
| Titanium | ppm | ASTM D5185m | >35 | <1 | <1 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >350 | 2 | 5 | --- |
| Lead | ppm | ASTM D5185m | >10 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m | >15 | 0 | <1 | --- |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | VLITE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

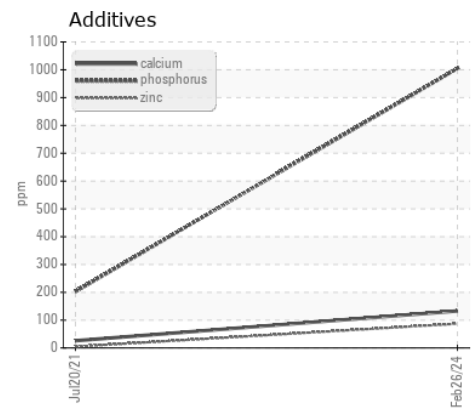
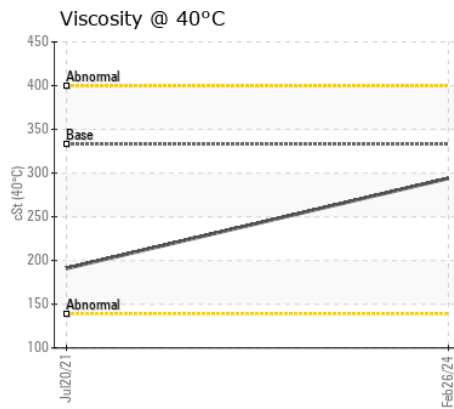
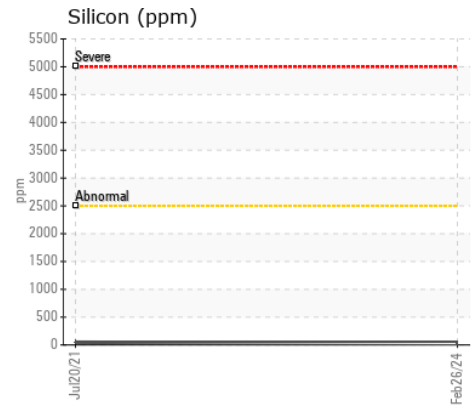
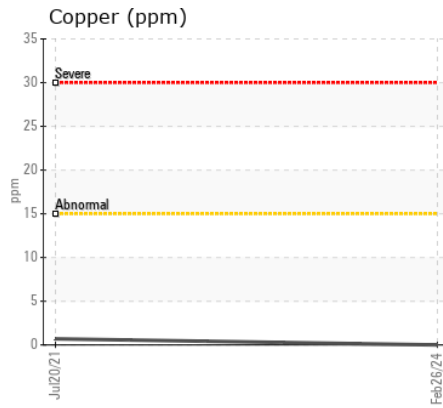
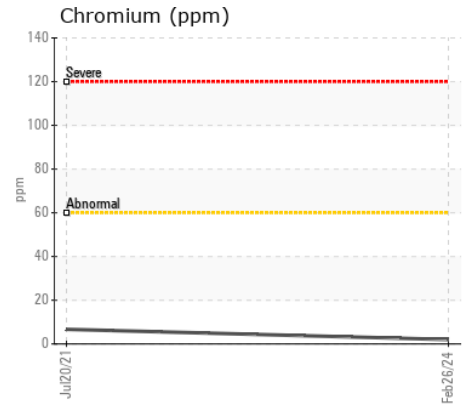
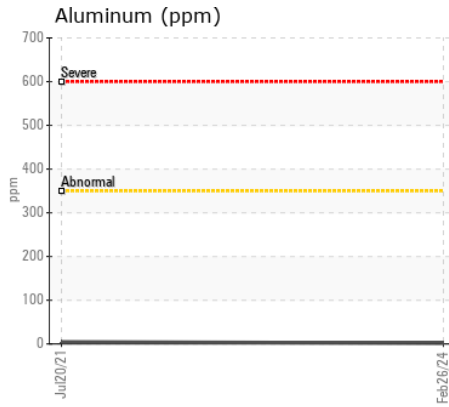
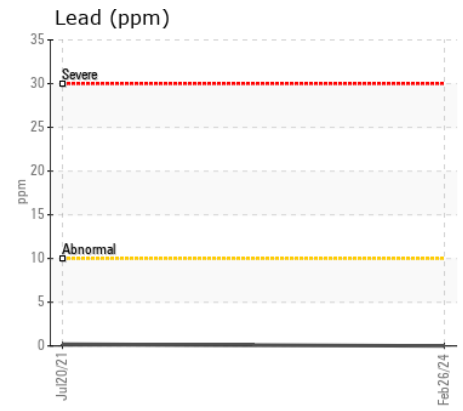
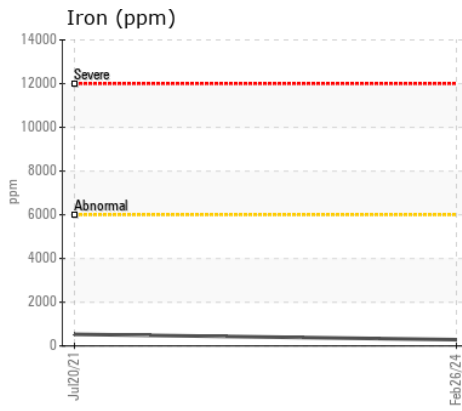
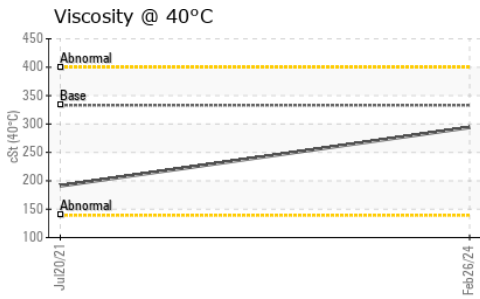
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >2500 | 27 | 49 | --- |
| Potassium | ppm | ASTM D5185m | >20 | <1 | 2 | --- |
| Water | | WC Method | >0.2 | NEG | NEG | --- |
| Silt | scalar | *Visual | NONE | NONE | NONE | --- |
| Debris | scalar | *Visual | NONE | NONE | NONE | --- |
| Sand/Dirt | scalar | *Visual | NONE | NONE | NONE | --- |
| Appearance | scalar | *Visual | NORML | NORML | NORML | --- |
| Odor | scalar | *Visual | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual | >0.2 | NEG | NEG | --- |

FLUID CONDITION

The condition of the oil is acceptable for the time in service.

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 0 | <1 | --- |
| Boron | ppm | ASTM D5185m | 111 | 119 | 9 | --- |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0.9 | 2 | <1 | --- |
| Manganese | ppm | ASTM D5185m | 0.0 | 3 | 6 | --- |
| Magnesium | ppm | ASTM D5185m | 39 | 35 | 0 | --- |
| Calcium | ppm | ASTM D5185m | 93 | 133 | 26 | --- |
| Phosphorus | ppm | ASTM D5185m | 920 | 1005 | 203 | --- |
| Zinc | ppm | ASTM D5185m | 104 | 87 | 5 | --- |
| Sulfur | ppm | ASTM D5185m | 20179 | 30673 | 10146 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 333 | 294 | 191 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP437841
Lab Number : 06160738
Unique Number : 10996161
Test Package : MOB 1

Received : 25 Apr 2024
Tested : 26 Apr 2024
Diagnosed : 26 Apr 2024 - Wes Davis

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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)