



VOLVO

OIL ANALYSIS REPORT

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



Area
[3560 FCL]
Machine Id
VOLVO ECR235E 315257
Component
Swing 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 | | VCP439140 | VCP421852 | --- |
| Sample Date | | Client Info | | 06 Feb 2024 | 06 Sep 2023 | --- |
| Machine Age | hrs | Client Info | | 2716 | 2117 | --- |
| Oil Age | hrs | Client Info | | 0 | 0 | --- |
| Filter Age | hrs | Client Info | | 0 | 0 | --- |
| Oil Changed | | Client Info | | Changed | Changed | --- |
| Filter Changed | | Client Info | | Not Changed | Not Changed | --- |
| Sample Status | | | | NORMAL | NORMAL | --- |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|-------|--------------|------|-----|
| Iron | ppm | ASTM D5185m | >1200 | 43 | 346 | --- |
| Chromium | ppm | ASTM D5185m | >10 | <1 | 3 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | <1 | 0 | --- |
| Lead | ppm | ASTM D5185m | >50 | 0 | <1 | --- |
| Copper | ppm | ASTM D5185m | >50 | 2 | 10 | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | <1 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

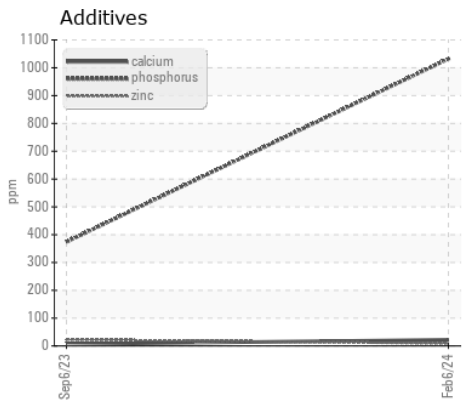
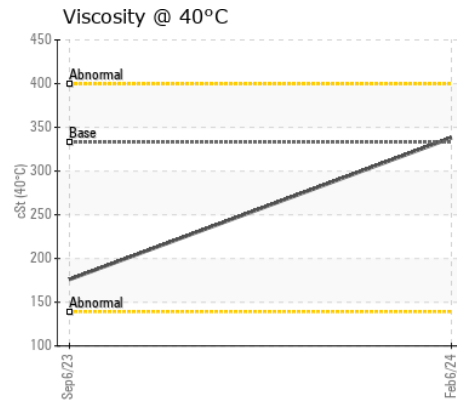
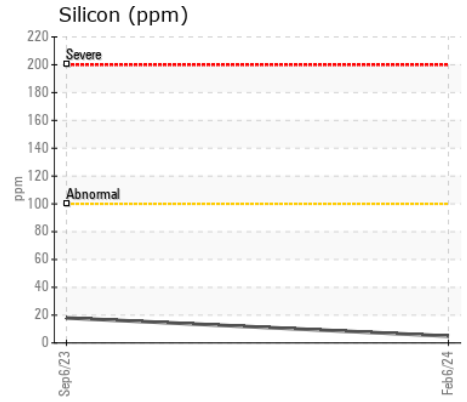
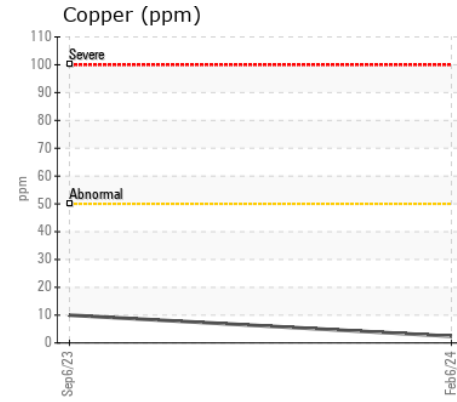
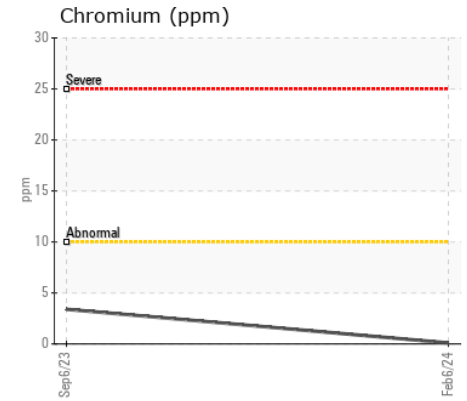
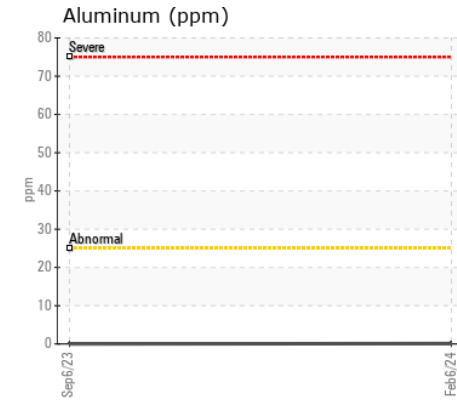
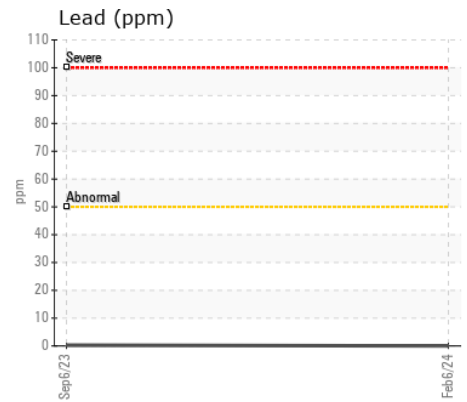
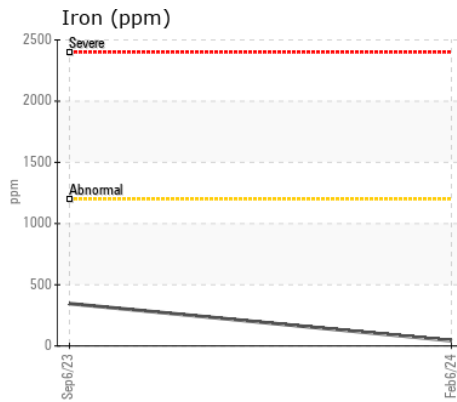
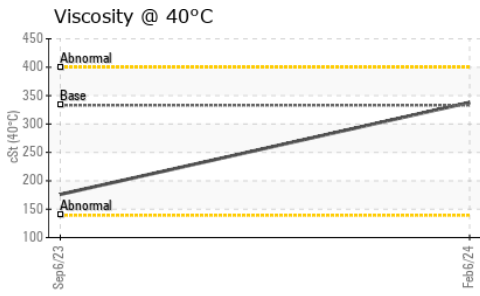
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon | ppm | ASTM D5185m | >100 | 5 | 18 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 3 | --- |
| Water | | WC Method | >0.25 | 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 | >0.25 | NEG | 0.2% | --- |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|-------|--------------|-------|-----|
| Sodium | ppm | ASTM D5185m | | 0 | 1 | --- |
| Boron | ppm | ASTM D5185m | 111 | 201 | 9 | --- |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | --- |
| Molybdenum | ppm | ASTM D5185m | 0.9 | 0 | <1 | --- |
| Manganese | ppm | ASTM D5185m | 0.0 | <1 | 5 | --- |
| Magnesium | ppm | ASTM D5185m | 39 | 0 | 2 | --- |
| Calcium | ppm | ASTM D5185m | 93 | 22 | 7 | --- |
| Phosphorus | ppm | ASTM D5185m | 920 | 1032 | 374 | --- |
| Zinc | ppm | ASTM D5185m | 104 | 9 | 23 | --- |
| Sulfur | ppm | ASTM D5185m | 20179 | 27425 | 19425 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 333 | 338 | 176 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP439140
Lab Number : 06086407
Unique Number : 10873852
Test Package : MOB 1

Received : 12 Feb 2024
Tested : 13 Feb 2024
Diagnosed : 13 Feb 2024 - Don Baldrige

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
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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)