



ASCENDUM

OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **NORMAL**

FLUID CONDITION **NORMAL**



Area

Ascendum Machinery

Machine Id

VOLVO EC200EL 310063

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 | | ASC0007640 | ASC0005342 | VCP0000574 |
| Sample Date | | Client Info | | 27 Feb 2024 | 24 Oct 2023 | 14 Jun 2022 |
| Machine Age | hrs | Client Info | | 5427 | 5030 | 3293 |
| Oil Age | hrs | Client Info | | 397 | 1737 | 1297 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Chngd | Changed | Changed |
| Filter Changed | | Client Info | | None | N/A | N/A |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >500 | 367 | 221 | 86 |
| Chromium | ppm | ASTM D5185m | >10 | 4 | 2 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 1 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | <1 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >25 | 7 | <1 | <1 |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >50 | 0 | 0 | <1 |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

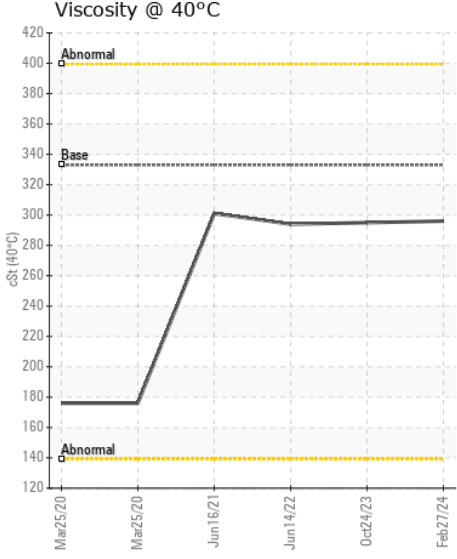
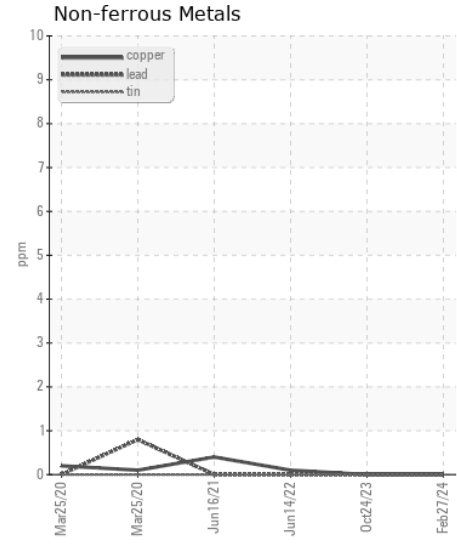
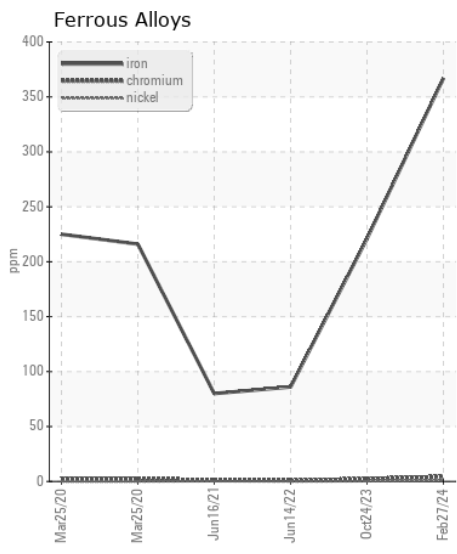
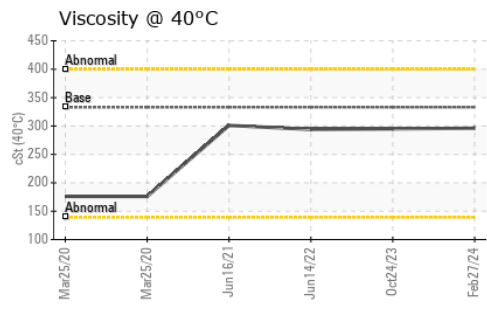
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >75 | 33 | 9 | 4 |
| Potassium | ppm | ASTM D5185m | >20 | 14 | 8 | 3 |
| 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 | | 3 | 3 | 1 |
| Boron | ppm | ASTM D5185m | 111 | 39 | 55 | 67 |
| Barium | ppm | ASTM D5185m | 0.0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0.9 | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | 0.0 | 5 | 3 | 2 |
| Magnesium | ppm | ASTM D5185m | 39 | 2 | 0 | <1 |
| Calcium | ppm | ASTM D5185m | 93 | 19 | 0 | 3 |
| Phosphorus | ppm | ASTM D5185m | 920 | 982 | 764 | 900 |
| Zinc | ppm | ASTM D5185m | 104 | 21 | 1 | 14 |
| Sulfur | ppm | ASTM D5185m | 20179 | 28427 | 24020 | 26642 |
| Visc @ 40°C | cSt | ASTM D445 | 333 | 296 | 295 | 294 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : ASC0007640
Lab Number : 06105628
Unique Number : 10903858
Test Package : CONST
Received : 29 Feb 2024
Tested : 02 Mar 2024
Diagnosed : 04 Mar 2024 - Don Baldrige

EGGER TIMBERPAK
 1801 COTTONWOOD ST
 CHARLOTTE, NC
 US 28206
 Contact: Service Manager

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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