



OIL ANALYSIS REPORT

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

Area

[673135]

Machine Id

SENNEBOGEN 840 840.0.2369

Component

Rear Left Final Drive

Fluid

VOLVO PREMIUM GEAR OIL 80W-90 GL-5 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number | | Client Info | | VCP445848 | VCP424548 | --- |
| Sample Date | | Client Info | | 10 Feb 2024 | 10 Aug 2023 | --- |
| Machine Age | hrs | Client Info | | 2322 | 1119 | --- |
| Oil Age | hrs | Client Info | | 1322 | 1119 | --- |
| 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 | >500 | 22 | 34 | --- |
| Chromium | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | --- |
| Silver | ppm | ASTM D5185m | | 0 | 0 | --- |
| Aluminum | ppm | ASTM D5185m | >25 | 0 | <1 | --- |
| Lead | ppm | ASTM D5185m | >25 | 0 | 0 | --- |
| Copper | ppm | ASTM D5185m | >50 | 4 | 12 | --- |
| Tin | ppm | ASTM D5185m | >10 | 0 | 0 | --- |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | --- |
| White Metal | scalar | *Visual | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | --- |

CONTAMINATION

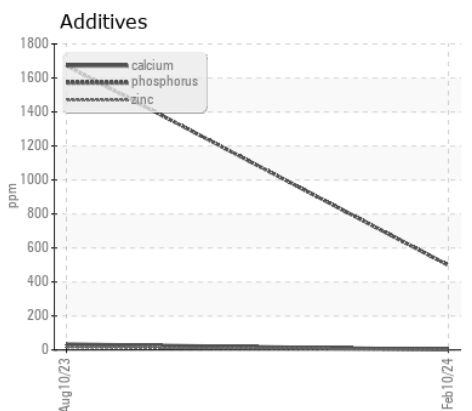
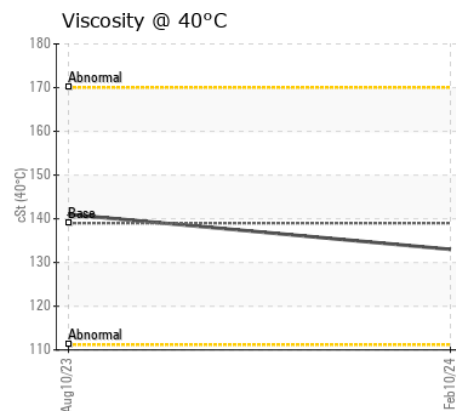
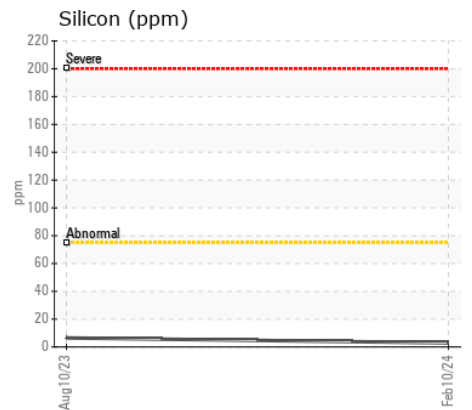
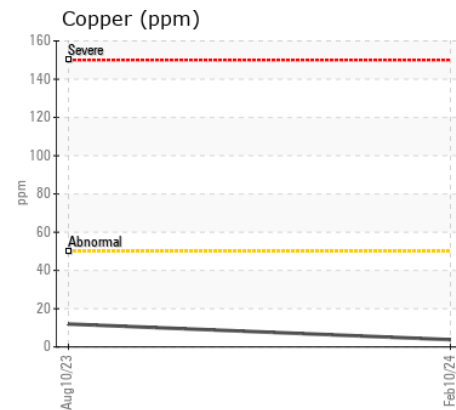
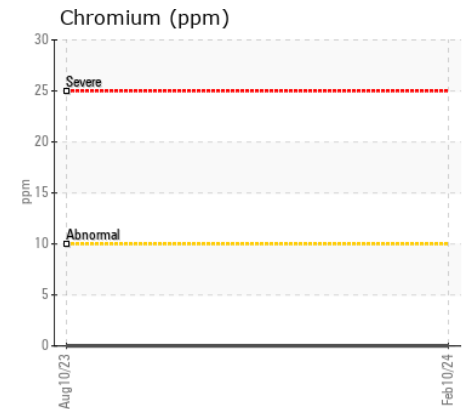
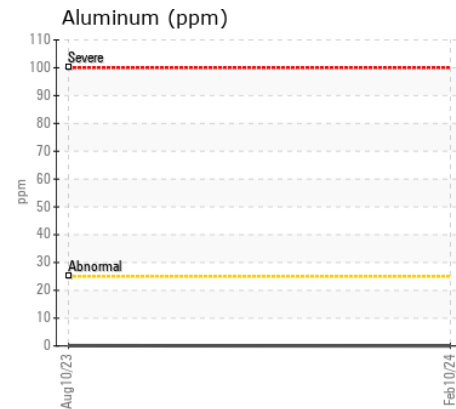
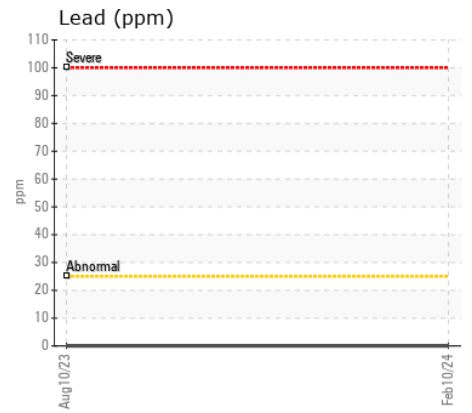
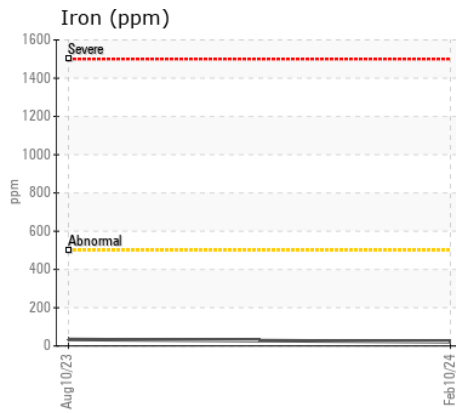
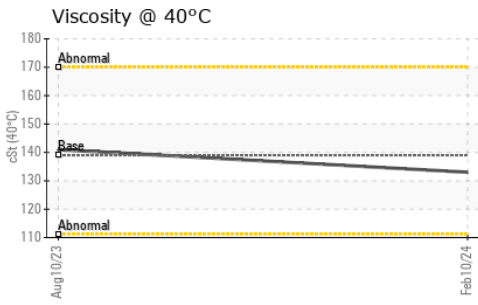
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|-------|-------|-----|
| Silicon | ppm | ASTM D5185m | >75 | 3 | 6 | --- |
| Potassium | ppm | ASTM D5185m | >20 | 0 | <1 | --- |
| 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 | | 2 | 4 | --- |
| Boron | ppm | ASTM D5185m | 379 | 16 | 152 | --- |
| Barium | ppm | ASTM D5185m | 0.0 | 2 | 1 | --- |
| Molybdenum | ppm | ASTM D5185m | 0.8 | 0 | 0 | --- |
| Manganese | ppm | ASTM D5185m | 0.0 | <1 | 1 | --- |
| Magnesium | ppm | ASTM D5185m | 31 | 0 | 0 | --- |
| Calcium | ppm | ASTM D5185m | 38 | 2 | 34 | --- |
| Phosphorus | ppm | ASTM D5185m | 1077 | 498 | 1673 | --- |
| Zinc | ppm | ASTM D5185m | 46 | 0 | 16 | --- |
| Sulfur | ppm | ASTM D5185m | 23526 | 17126 | 25056 | --- |
| Visc @ 40°C | cSt | ASTM D445 | 139 | 133 | 141 | --- |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP445848
Lab Number : 06098716
Unique Number : 10896946
Test Package : MOB 1

Received : 23 Feb 2024
Tested : 26 Feb 2024
Diagnosed : 26 Feb 2024 - Don Baldrige

FERROUS PROCESSING AND TRADING
 3400 E LAFAYETTE
 DETROIT, MI
 US 48207
 Contact: KEITH HALL
 keith.hall@fpt1.com

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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F: