



VOLVO

OIL ANALYSIS REPORT

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

Area
[SPM702435 AMG RES]
 Machine Id
SENNEBOGEN 830ME 830.0.2822
 Component
Hydraulic System
 Fluid
VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)

RECOMMENDATION

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number | | Client Info | | VCP446190 | VCP427365 | VCP423274 |
| Sample Date | | Client Info | | 23 Apr 2024 | 19 Oct 2023 | 17 Oct 2023 |
| Machine Age | hrs | Client Info | | 9464 | 9029 | 1492 |
| Oil Age | hrs | Client Info | | 0 | 0 | 0 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Filter Changed | | Client Info | | Changed | Not Changd | Not Changd |
| Sample Status | | | | ATTENTION | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|------|-------|------|
| Iron | ppm | ASTM D5185m | >20 | 2 | <1 | 2 |
| Chromium | ppm | ASTM D5185m | >10 | 2 | 2 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >10 | 0 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >75 | 0 | 12 | 1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | <1 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | LIGHT | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

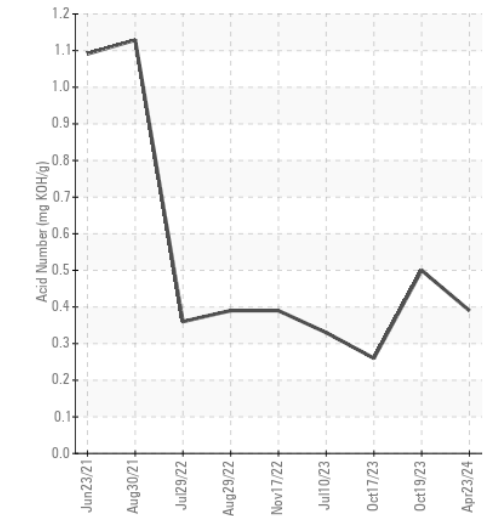
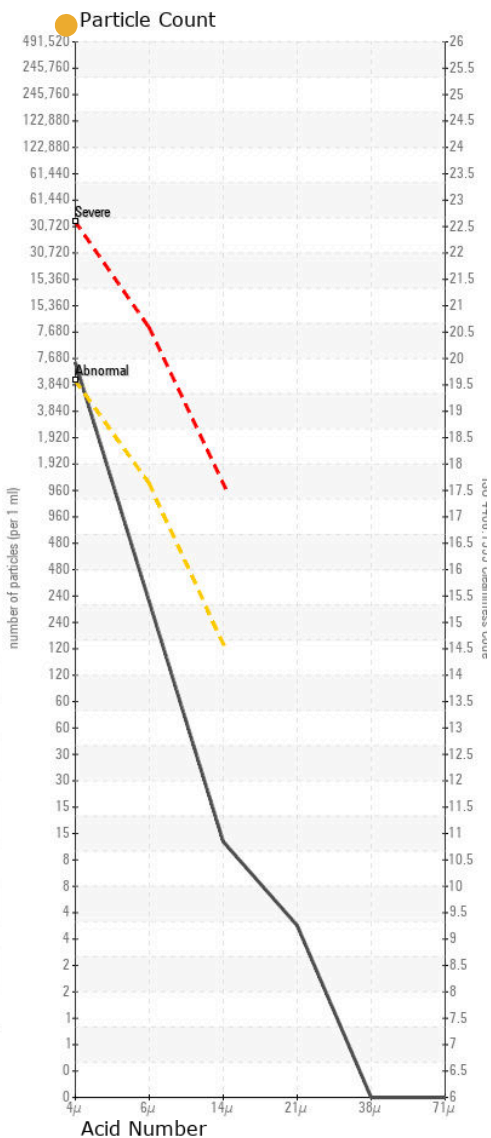
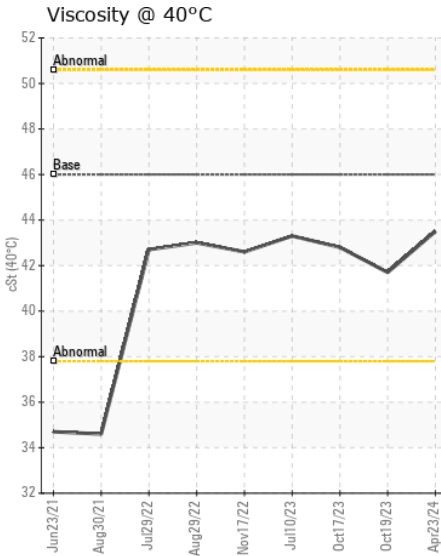
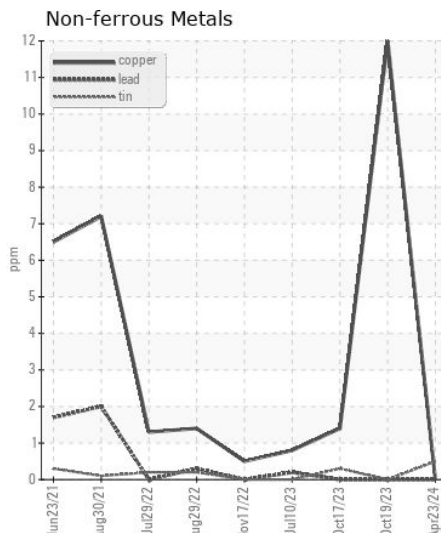
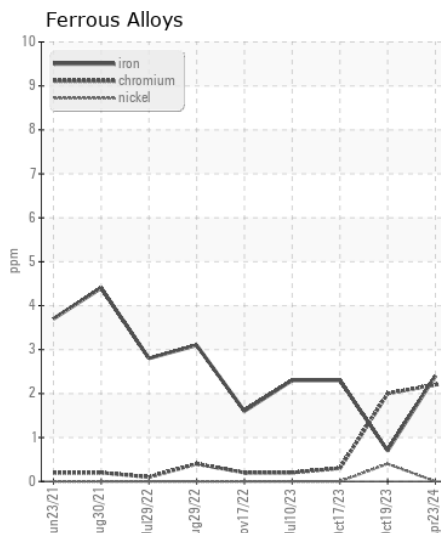
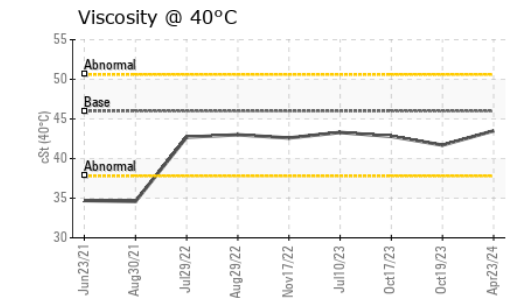
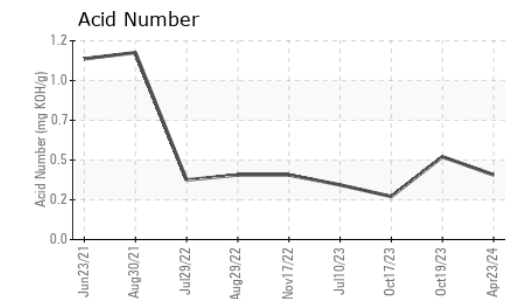
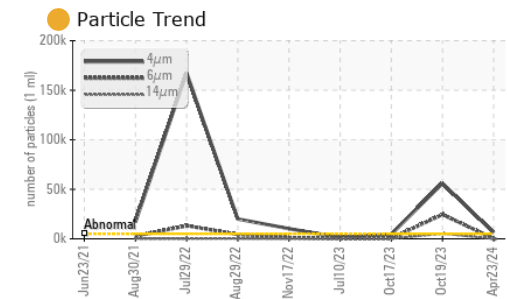
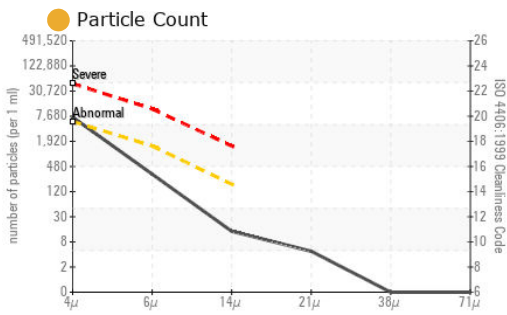
There is a light amount of silt (particulates < 14 microns in size) present in the oil.

| | | | | | | |
|------------------|--------|--------------|-----------|----------|----------|----------|
| Silicon | ppm | ASTM D5185m | >20 | 0 | 0 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 0 |
| Water | | WC Method | >0.1 | NEG | NEG | NEG |
| Particles >4µm | | ASTM D7647 | >5000 | 6349 | 55972 | 4618 |
| Particles >6µm | | ASTM D7647 | >1300 | 277 | 24559 | 578 |
| Particles >14µm | | ASTM D7647 | >160 | 12 | 5277 | 19 |
| Particles >21µm | | ASTM D7647 | >40 | 4 | 1585 | 3 |
| Particles >38µm | | ASTM D7647 | >10 | 0 | 26 | 0 |
| Particles >71µm | | ASTM D7647 | >3 | 0 | 1 | 0 |
| Oil Cleanliness | | ISO 4406 (c) | >19/17/14 | 20/15/11 | 23/22/20 | 19/16/11 |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | LIGHT | 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

| | | | | | | |
|------------------|----------|-------------|------|------|------|------|
| Sodium | ppm | ASTM D5185m | | <1 | 0 | <1 |
| Boron | ppm | ASTM D5185m | 14 | 0 | 0 | 0 |
| Barium | ppm | ASTM D5185m | 0.0 | <1 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0.0 | 0 | 0 | <1 |
| Manganese | ppm | ASTM D5185m | 0.0 | 0 | <1 | <1 |
| Magnesium | ppm | ASTM D5185m | 2.6 | 3 | 12 | <1 |
| Calcium | ppm | ASTM D5185m | 49 | 67 | 93 | 58 |
| Phosphorus | ppm | ASTM D5185m | 354 | 372 | 378 | 307 |
| Zinc | ppm | ASTM D5185m | 419 | 465 | 500 | 394 |
| Sulfur | ppm | ASTM D5185m | 3719 | 977 | 1066 | 1970 |
| Acid Number (AN) | mg KOH/g | ASTM D8045 | | 0.39 | 0.50 | 0.26 |
| Visc @ 40°C | cSt | ASTM D445 | 46 | 43.5 | 41.7 | 42.8 |



Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP446190
Lab Number : 06178650
Unique Number : 11029976
Test Package : MOB 2
Received : 14 May 2024
Tested : 15 May 2024
Diagnosed : 15 May 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)