



VOLVO

OIL ANALYSIS REPORT

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



Machine Id
VOLVO L110H 631978
Component
Front Axle
Fluid
VOLVO WB 102 (--- GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | VCP446026 | VCP454126 | VCP414722 |
| Sample Date | | Client Info | | 19 Apr 2024 | 05 Feb 2024 | 31 Aug 2023 |
| Machine Age | hrs | Client Info | | 5374 | 5168 | 4344 |
| Oil Age | hrs | Client Info | | 0 | 0 | 3000 |
| Filter Age | hrs | Client Info | | 0 | 0 | 0 |
| Oil Changed | | Client Info | | Not Changed | N/A | Changed |
| Filter Changed | | Client Info | | Not Changed | N/A | Changed |
| Sample Status | | | | NORMAL | NORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|------|
| Iron | ppm | ASTM D5185m | >500 | 20 | 30 | 376 |
| Chromium | ppm | ASTM D5185m | >20 | 0 | <1 | 5 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 2 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | <1 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 1 | <1 | 0 |
| Lead | ppm | ASTM D5185m | >50 | 0 | 0 | <1 |
| Copper | ppm | ASTM D5185m | >120 | 0 | 0 | 1 |
| Tin | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

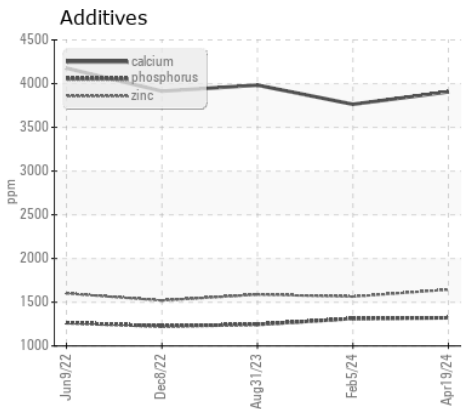
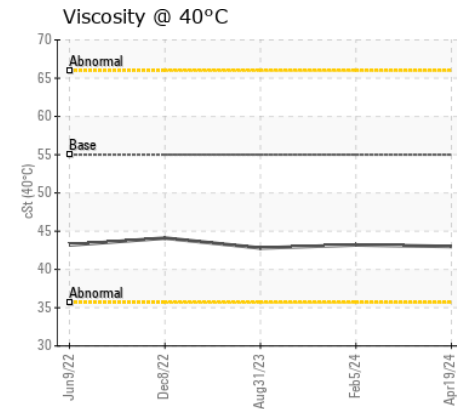
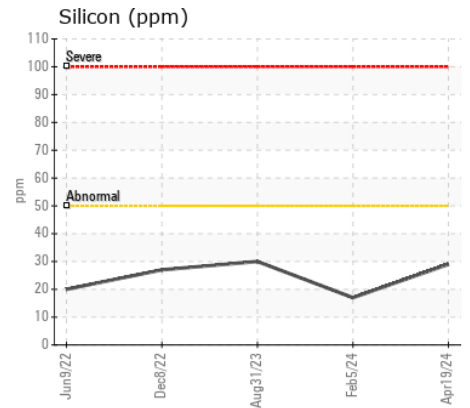
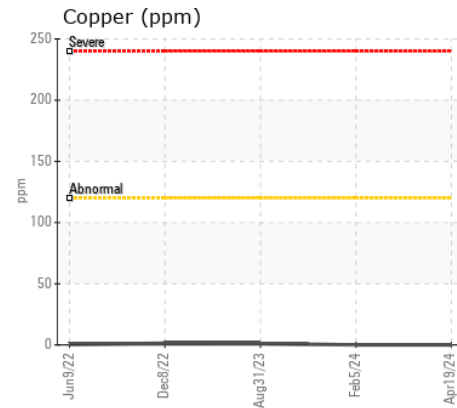
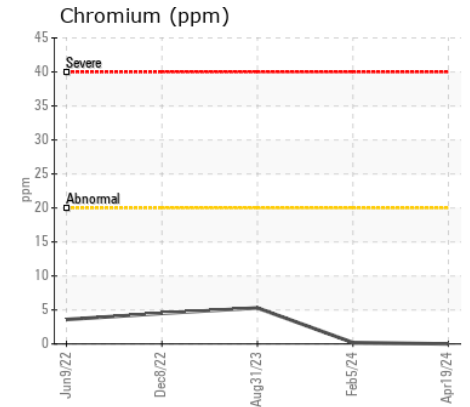
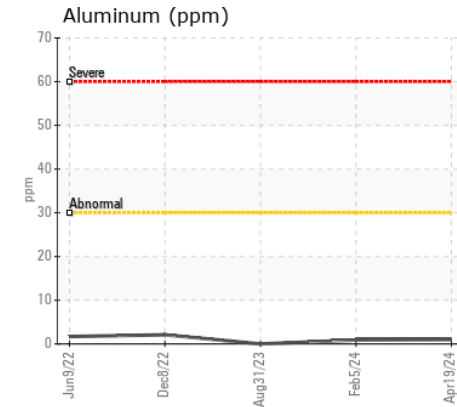
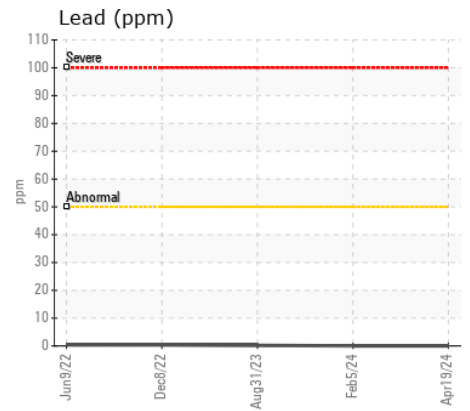
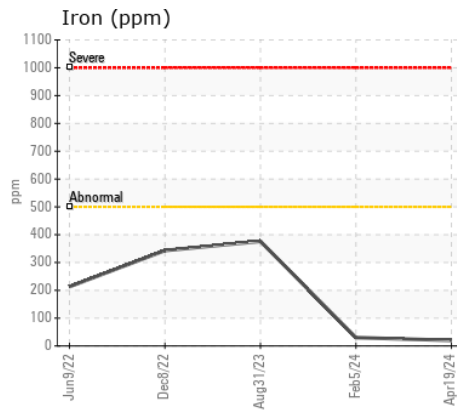
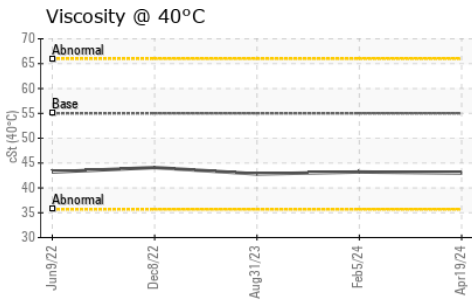
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >50 | 29 | 17 | 30 |
| Potassium | ppm | ASTM D5185m | >20 | 0 | 0 | 2 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| 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 | >0.2 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|----|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Boron | ppm | ASTM D5185m | | 141 | 128 | 116 |
| Barium | ppm | ASTM D5185m | | 0 | <1 | 1 |
| Molybdenum | ppm | ASTM D5185m | | 0 | 0 | 16 |
| Manganese | ppm | ASTM D5185m | | <1 | 1 | 15 |
| Magnesium | ppm | ASTM D5185m | | 10 | 15 | 16 |
| Calcium | ppm | ASTM D5185m | | 3906 | 3764 | 3983 |
| Phosphorus | ppm | ASTM D5185m | | 1322 | 1313 | 1246 |
| Zinc | ppm | ASTM D5185m | | 1645 | 1564 | 1588 |
| Sulfur | ppm | ASTM D5185m | | 4462 | 3564 | 4143 |
| Visc @ 40°C | cSt | ASTM D445 | 55 | 43.0 | 43.2 | 42.8 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP446026
Lab Number : 06188017
Unique Number : 11044769
Test Package : MOB 1

Received : 22 May 2024
Tested : 24 May 2024
Diagnosed : 24 May 2024 - Wes Davis

RIPA AND ASSOCIATES
 10149 FISHER AVENUE
 TAMPA, FL
 US 33619

Contact: PM Services
 PMServices@ripaconstruction.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: