



VOLVO

OIL ANALYSIS REPORT

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

Area
TMR-Tampa Port [702574]
Machine Id
562178 VOLVO L180H 5499
Component
Rear 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 | | VCP444027 | DJJ0005159 | VCP424866 |
| Sample Date | | Client Info | | 23 Apr 2024 | 11 Dec 2023 | 21 Mar 2023 |
| Machine Age | hrs | Client Info | | 12573 | 11063 | 7773 |
| Oil Age | hrs | Client Info | | 1000 | 1000 | 773 |
| Filter Age | hrs | Client Info | | 0 | 1000 | 0 |
| Oil Changed | | Client Info | | Changed | Changed | Not Changd |
| Filter Changed | | Client Info | | Changed | Changed | Not Changd |
| Sample Status | | | | NORMAL | NORMAL | ABNORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|------|-------|
| Iron | ppm | ASTM D5185m | >500 | 23 | 28 | 32 |
| Chromium | ppm | ASTM D5185m | >20 | <1 | <1 | <1 |
| Nickel | ppm | ASTM D5185m | >10 | 0 | 0 | 0 |
| Titanium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Silver | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Aluminum | ppm | ASTM D5185m | >30 | 1 | 1 | 1 |
| Lead | ppm | ASTM D5185m | >50 | 0 | <1 | 0 |
| Copper | ppm | ASTM D5185m | >120 | <1 | 0 | 1 |
| Tin | ppm | ASTM D5185m | >20 | <1 | <1 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | NONE | MODER |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

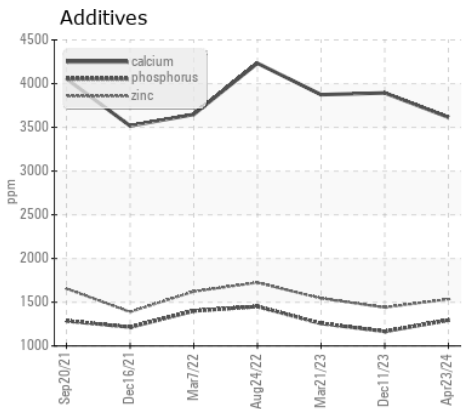
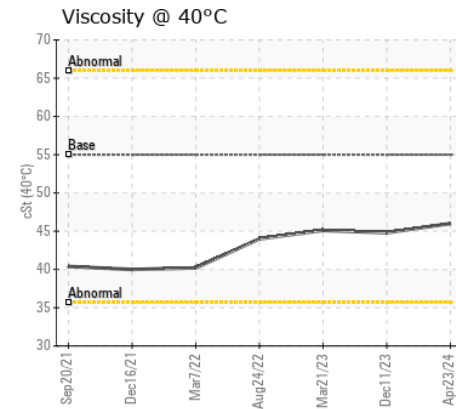
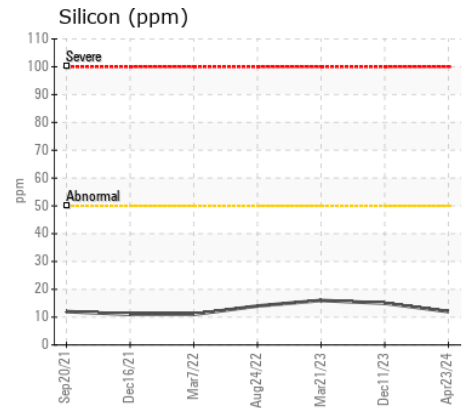
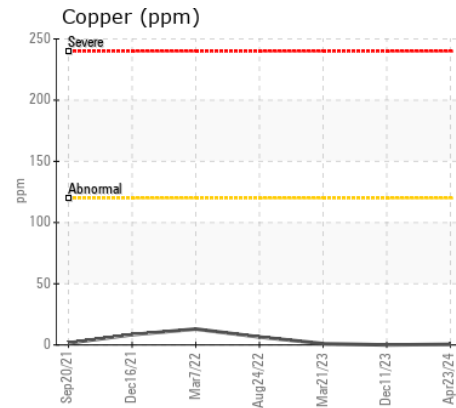
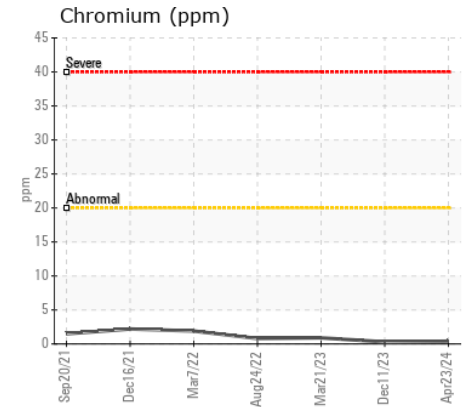
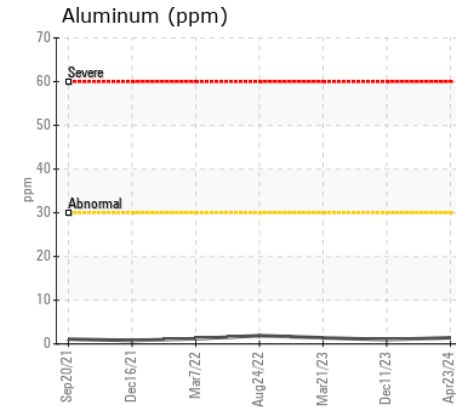
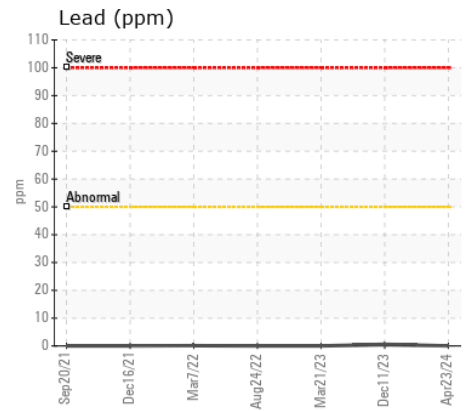
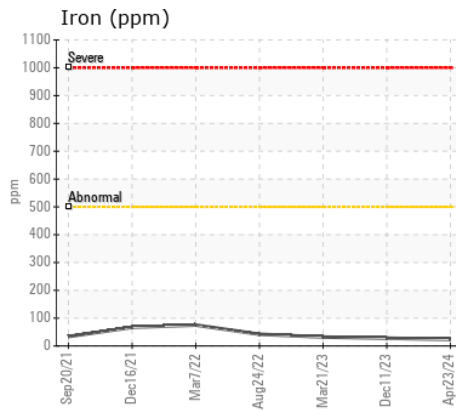
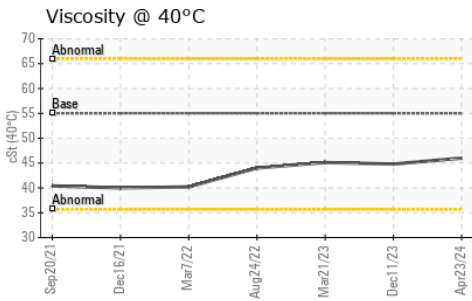
There is no indication of any contamination in the oil.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|---------|
| Silicon | ppm | ASTM D5185m | >50 | 12 | 15 | 16 |
| Potassium | ppm | ASTM D5185m | >20 | 1 | 0 | <1 |
| Water | | WC Method | >0.2 | NEG | NEG | NEG |
| Silt | scalar | *Visual | NONE | NONE | NONE | NONE |
| Debris | scalar | *Visual | NONE | NONE | NONE | ▲ MODER |
| 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 | | 2 | 1 | 8 |
| Boron | ppm | ASTM D5185m | | 130 | 131 | 128 |
| Barium | ppm | ASTM D5185m | | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | | 14 | <1 | 6 |
| Manganese | ppm | ASTM D5185m | | <1 | <1 | 2 |
| Magnesium | ppm | ASTM D5185m | | 66 | 10 | 24 |
| Calcium | ppm | ASTM D5185m | | 3615 | 3894 | 3874 |
| Phosphorus | ppm | ASTM D5185m | | 1295 | 1166 | 1257 |
| Zinc | ppm | ASTM D5185m | | 1535 | 1440 | 1545 |
| Sulfur | ppm | ASTM D5185m | | 6059 | 4001 | 8511 |
| Visc @ 40°C | cSt | ASTM D445 | 55 | 46.0 | 44.8 | 45.1 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513
Sample No. : VCP444027
Lab Number : 06195771
Unique Number : 11057894
Test Package : MOB 1

Received : 30 May 2024
Tested : 31 May 2024
Diagnosed : 31 May 2024 - Wes Davis

TRADEMARK METALS RECYCLING - TAMPA PORT
 4943 PORT SUTTON RD
 TAMPA, FL
 US 33619
 Contact: RYAN BOWDEN

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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