



OIL ANALYSIS REPORT

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



Area
AMR-Sedalia
Machine Id
17421 VOLVO L90E 67474
Component
Transmission (Auto)
Fluid
VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (13 GAL)

RECOMMENDATION

Resample at the next service interval to monitor.

| Test | UOM | Method | Limit/Abn | Current | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number | | Client Info | | DJJ0012334 | DJJ0005306 | DJJ023650 |
| Sample Date | | Client Info | | 11 Apr 2024 | 02 May 2023 | 26 Oct 2022 |
| Machine Age | hrs | Client Info | | 17251 | 16887 | 16401 |
| Oil Age | hrs | Client Info | | 0 | 1000 | 750 |
| Filter Age | hrs | Client Info | | 0 | 1000 | 750 |
| Oil Changed | | Client Info | | Not Changd | Changed | Not Changd |
| Filter Changed | | Client Info | | N/A | Changed | Not Changd |
| Sample Status | | | | NORMAL | ABNORMAL | NORMAL |

WEAR

All component wear rates are normal.

| | | | | | | |
|--------------|--------|-------------|------|--------------|---------|------|
| Iron | ppm | ASTM D5185m | >160 | 4 | 5 | 2 |
| Chromium | ppm | ASTM D5185m | >5 | <1 | 0 | 0 |
| Nickel | ppm | ASTM D5185m | >5 | 0 | <1 | 0 |
| Titanium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| Silver | ppm | ASTM D5185m | >5 | <1 | 0 | <1 |
| Aluminum | ppm | ASTM D5185m | >50 | 1 | 0 | 0 |
| Lead | ppm | ASTM D5185m | >50 | <1 | 0 | 0 |
| Copper | ppm | ASTM D5185m | >225 | 2 | 1 | <1 |
| Tin | ppm | ASTM D5185m | >10 | <1 | 0 | 0 |
| Vanadium | ppm | ASTM D5185m | | <1 | 0 | 0 |
| White Metal | scalar | *Visual | NONE | NONE | ▲ MODER | NONE |
| Yellow Metal | scalar | *Visual | NONE | NONE | NONE | NONE |

CONTAMINATION

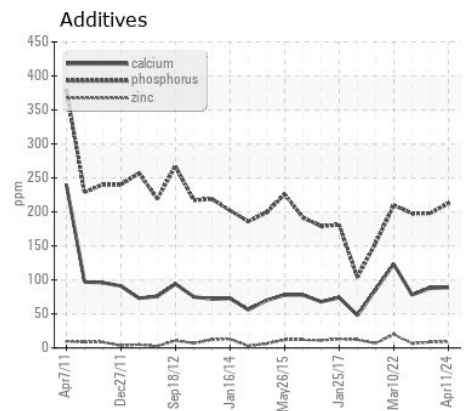
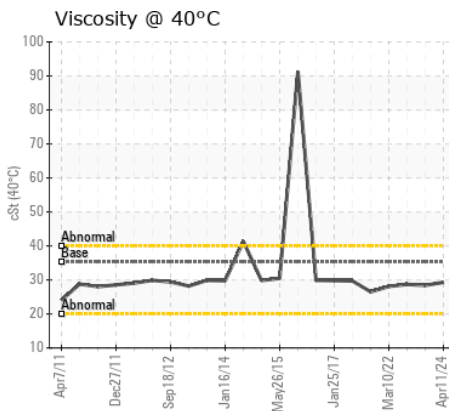
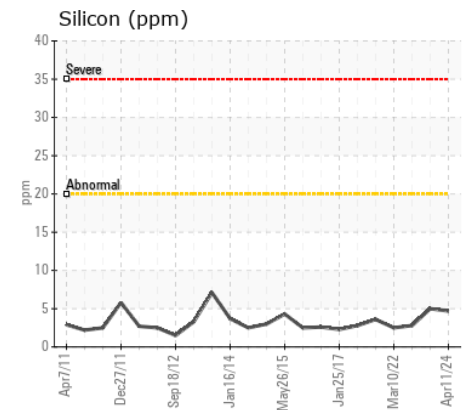
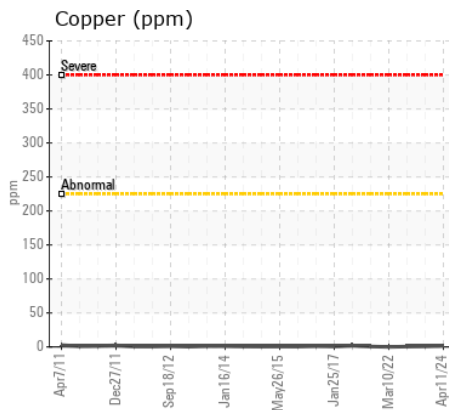
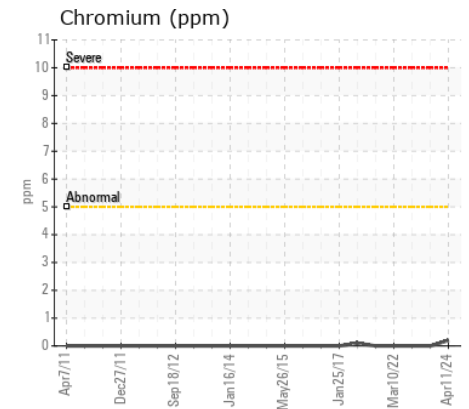
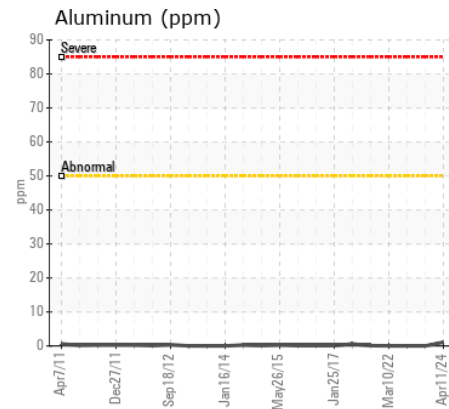
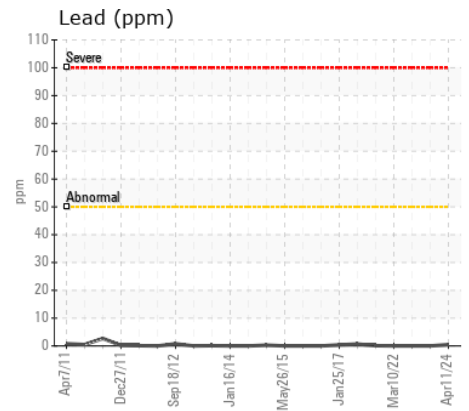
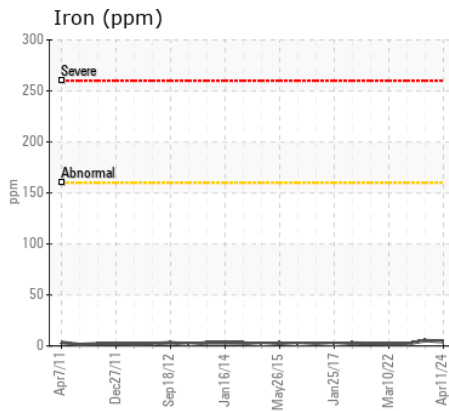
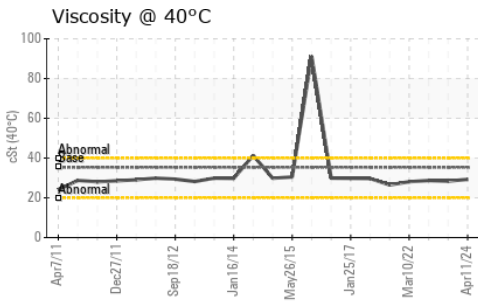
There is no indication of any contamination in the fluid.

| | | | | | | |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon | ppm | ASTM D5185m | >20 | 5 | 5 | 3 |
| Potassium | ppm | ASTM D5185m | >20 | 3 | 2 | 2 |
| Water | | WC Method | >0.1 | 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 | >0.1 | NEG | NEG | NEG |

FLUID CONDITION

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

| | | | | | | |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium | ppm | ASTM D5185m | | 2 | <1 | 0 |
| Boron | ppm | ASTM D5185m | 187 | 98 | 91 | 94 |
| Barium | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Molybdenum | ppm | ASTM D5185m | 0.0 | <1 | <1 | <1 |
| Manganese | ppm | ASTM D5185m | 0.0 | 0 | 0 | 0 |
| Magnesium | ppm | ASTM D5185m | 6.8 | 2 | <1 | 1 |
| Calcium | ppm | ASTM D5185m | 215 | 89 | 88 | 78 |
| Phosphorus | ppm | ASTM D5185m | 445 | 212 | 198 | 198 |
| Zinc | ppm | ASTM D5185m | 56 | 9 | 8 | 6 |
| Sulfur | ppm | ASTM D5185m | 1336 | 3131 | 2072 | 2123 |
| Visc @ 40°C | cSt | ASTM D445 | 35.3 | 29.3 | 28.4 | 28.7 |



Certificate L2367

Laboratory : WearCheck USA - 501 Madison Ave., Cary, NC 27513

Sample No. : DJJ0012334

Lab Number : 06153857

Unique Number : 10989280

Test Package : MOBCE

Received : 18 Apr 2024

Tested : 24 Apr 2024

Diagnosed : 24 Apr 2024 - Jonathan Hester

ADVANTAGE METALS RECYCLING - SEDALIA

300 N IRON AVE

SEDALIA, MO

US 65301

Contact: SCOTT TUTTLE

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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)