



# VOLVO

## OIL ANALYSIS REPORT

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

Area  
**[SPM702582 WASTE MGMT]**  
 Machine Id  
**VOLVO L90H 624824**  
 Component  
**Front Axle**  
 Fluid  
**VOLVO WB 102 (--- GAL)**



### RECOMMENDATION

No corrective action is recommended at this time. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

### CONTAMINATION

Moderate concentration of visible dirt/debris present in the oil.

### FLUID CONDITION

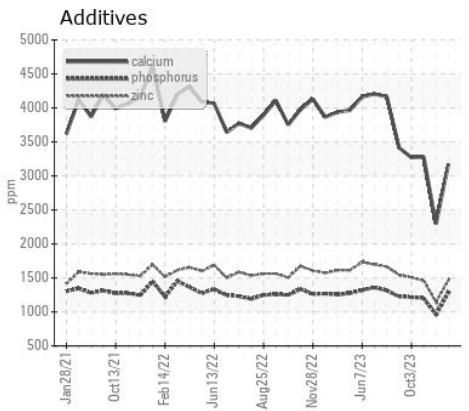
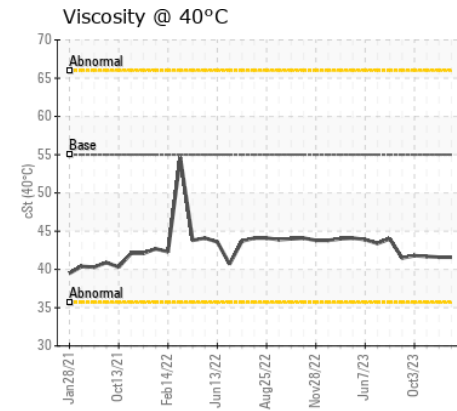
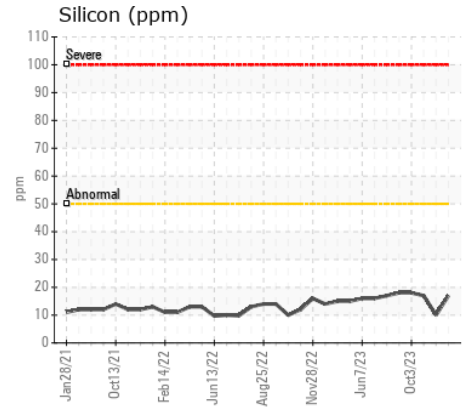
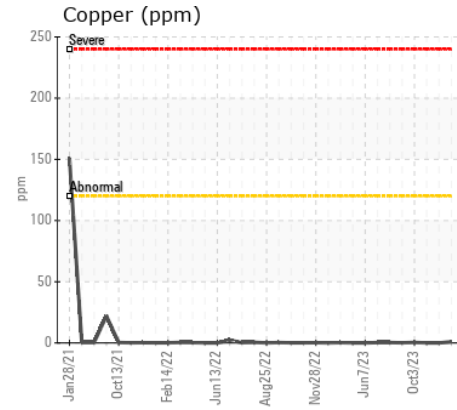
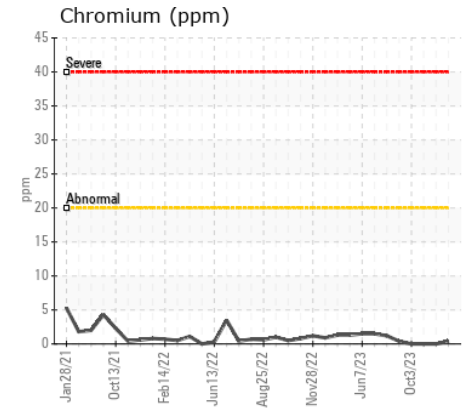
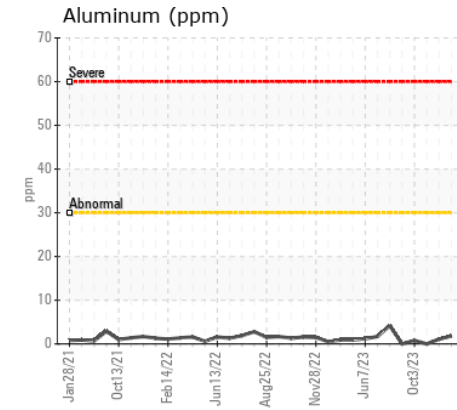
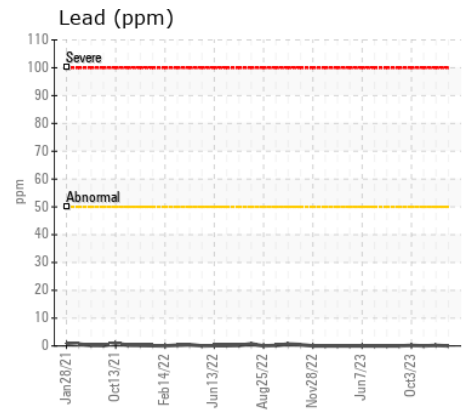
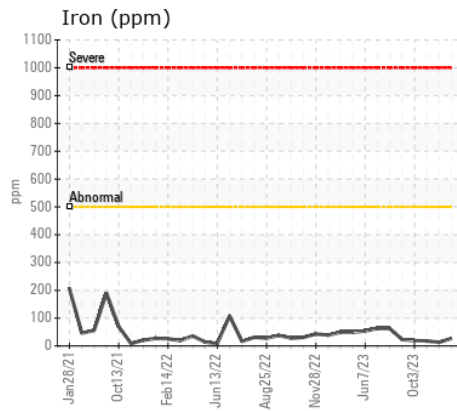
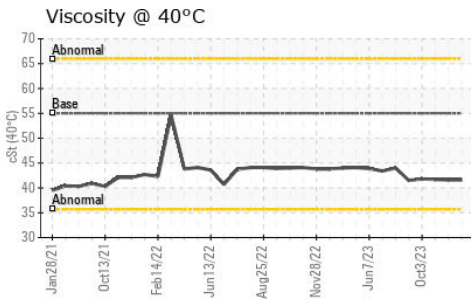
The condition of the oil is acceptable for the time in service.

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2    |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number  |     | Client Info |           | VCP447715   | VCP428865   | VCP398378   |
| Sample Date    |     | Client Info |           | 26 Apr 2024 | 29 Nov 2023 | 18 Oct 2023 |
| Machine Age    | hrs | Client Info |           | 10994       | 10587       | 10540       |
| Oil Age        | hrs | Client Info |           | 0           | 0           | 0           |
| Filter Age     | hrs | Client Info |           | 0           | 0           | 0           |
| Oil Changed    |     | Client Info |           | Not Changed | Not Changed | Not Changed |
| Filter Changed |     | Client Info |           | Not Changed | Not Changed | Not Changed |
| Sample Status  |     |             |           | ABNORMAL    | NORMAL      | NORMAL      |

|              |        |             |      |      |      |      |
|--------------|--------|-------------|------|------|------|------|
| Iron         | ppm    | ASTM D5185m | >500 | 27   | 13   | 18   |
| Chromium     | ppm    | ASTM D5185m | >20  | <1   | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m | >10  | <1   | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <1   | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | 0    | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >30  | 2    | 1    | 0    |
| Lead         | ppm    | ASTM D5185m | >50  | 0    | <1   | 0    |
| Copper       | ppm    | ASTM D5185m | >120 | 1    | 0    | 0    |
| Tin          | ppm    | ASTM D5185m | >20  | 0    | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <1   | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | NONE | NONE | NONE |

|                  |        |             |       |         |       |       |
|------------------|--------|-------------|-------|---------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | 17      | 10    | 17    |
| Potassium        | ppm    | ASTM D5185m | >20   | 3       | 4     | 0     |
| Water            |        | WC Method   | >0.2  | NEG     | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | NONE    | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | ▲ MODER | 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   |

|             |     |             |    |      |      |      |
|-------------|-----|-------------|----|------|------|------|
| Sodium      | ppm | ASTM D5185m |    | 0    | <1   | <1   |
| Boron       | ppm | ASTM D5185m |    | 15   | 17   | 26   |
| Barium      | ppm | ASTM D5185m |    | <1   | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m |    | <1   | 0    | 0    |
| Manganese   | ppm | ASTM D5185m |    | <1   | <1   | 0    |
| Magnesium   | ppm | ASTM D5185m |    | 10   | 10   | 11   |
| Calcium     | ppm | ASTM D5185m |    | 3172 | 2297 | 3279 |
| Phosphorus  | ppm | ASTM D5185m |    | 1280 | 957  | 1202 |
| Zinc        | ppm | ASTM D5185m |    | 1464 | 1143 | 1458 |
| Sulfur      | ppm | ASTM D5185m |    | 4620 | 3765 | 4493 |
| Visc @ 40°C | cSt | ASTM D445   | 55 | 41.6 | 41.6 | 41.7 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP447715  
**Lab Number** : 06212194  
**Unique Number** : 11085058  
**Test Package** : MOB 1

**Received** : 17 Jun 2024  
**Tested** : 19 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Don Baldrige

**ALTA EQUIPMENT CO - ORLAND PARK**  
 5000 INDUSTRIAL HWY  
 GARY, IN  
 US 46406  
 Contact: DAVE ENG  
 DAVE.ENG@ALTG.COM  
 T: (312)350-2560  
 F:

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)