



# VOLVO

## OIL ANALYSIS REPORT

|                 |               |
|-----------------|---------------|
| WEAR            | <b>SEVERE</b> |
| CONTAMINATION   | <b>NORMAL</b> |
| FLUID CONDITION | <b>NORMAL</b> |

Area  
**[512280 LIBERTY]**  
 Machine Id  
**GENIE S-65 S6011-22685**  
 Component  
**Front Left Final Drive**  
 Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition.

### WEAR

Bearing and/or gear wear is indicated.

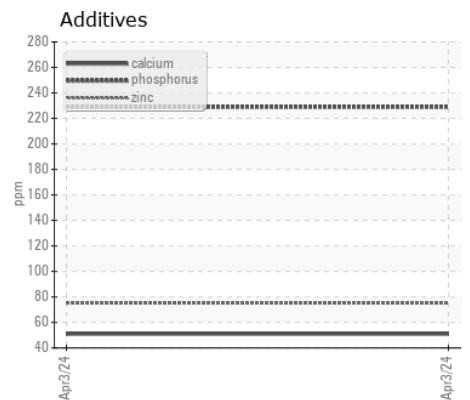
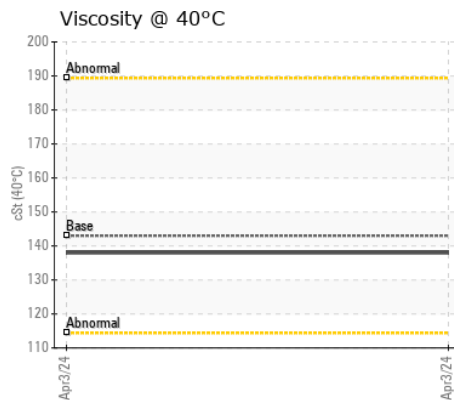
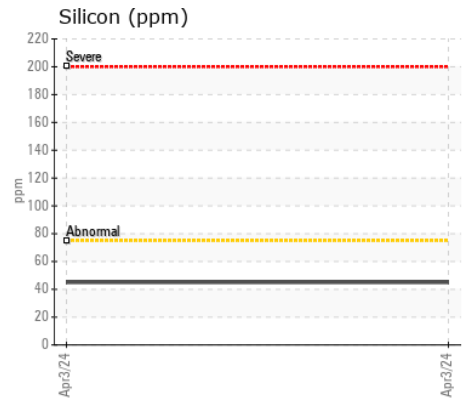
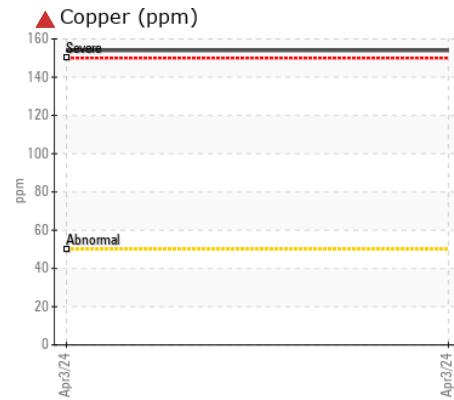
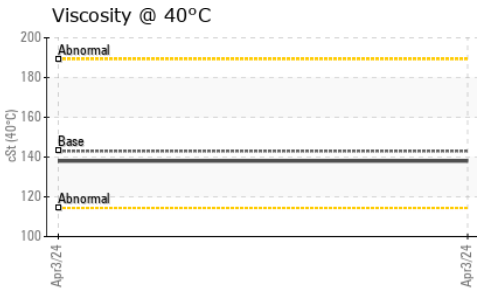
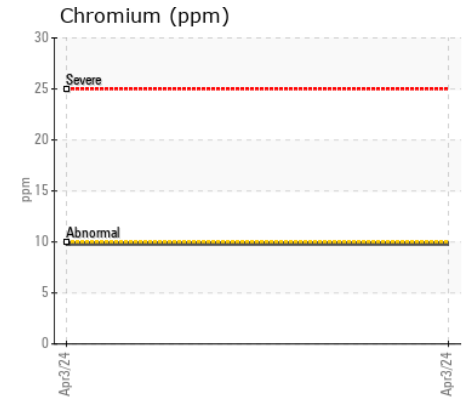
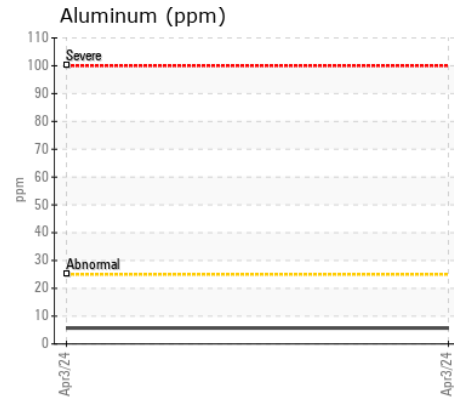
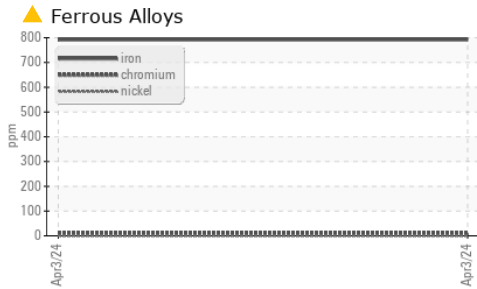
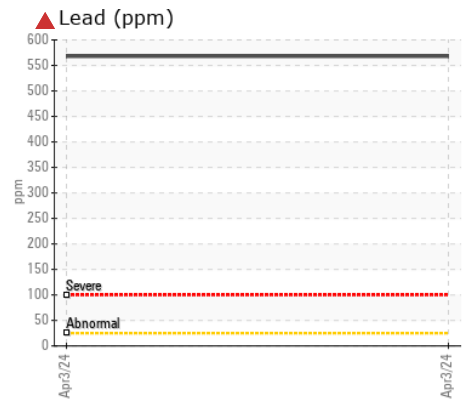
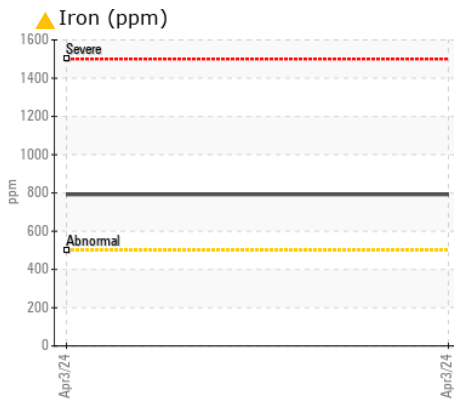
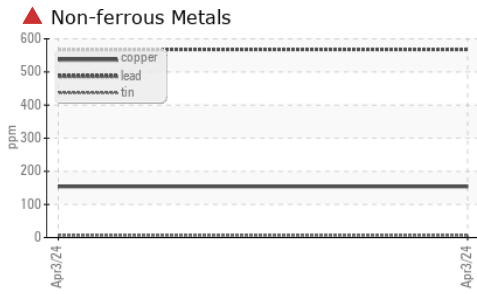
### CONTAMINATION

There is no indication of any contamination in the oil.

### FLUID CONDITION

The oil is no longer serviceable as a result of the abnormal and/or severe wear.

| Test             | UOM    | Method      | Limit/Abn | Current            | History1 | History2 |
|------------------|--------|-------------|-----------|--------------------|----------|----------|
| Sample Number    |        | Client Info |           | <b>VCP454247</b>   | ---      | ---      |
| Sample Date      |        | Client Info |           | <b>03 Apr 2024</b> | ---      | ---      |
| Machine Age      | hrs    | Client Info |           | <b>2050</b>        | ---      | ---      |
| Oil Age          | hrs    | Client Info |           | <b>2050</b>        | ---      | ---      |
| Filter Age       | hrs    | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed      |        | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed   |        | Client Info |           | <b>Not Changed</b> | ---      | ---      |
| Sample Status    |        |             |           | <b>SEVERE</b>      | ---      | ---      |
| <hr/>            |        |             |           |                    |          |          |
| Iron             | ppm    | ASTM D5185m | >500      | <b>▲ 792</b>       | ---      | ---      |
| Chromium         | ppm    | ASTM D5185m | >10       | <b>10</b>          | ---      | ---      |
| Nickel           | ppm    | ASTM D5185m | >10       | <b>0</b>           | ---      | ---      |
| Titanium         | ppm    | ASTM D5185m |           | <b>&lt;1</b>       | ---      | ---      |
| Silver           | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| Aluminum         | ppm    | ASTM D5185m | >25       | <b>6</b>           | ---      | ---      |
| Lead             | ppm    | ASTM D5185m | >25       | <b>▲ 568</b>       | ---      | ---      |
| Copper           | ppm    | ASTM D5185m | >50       | <b>▲ 154</b>       | ---      | ---      |
| Tin              | ppm    | ASTM D5185m | >10       | <b>7</b>           | ---      | ---      |
| Vanadium         | ppm    | ASTM D5185m |           | <b>0</b>           | ---      | ---      |
| White Metal      | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Yellow Metal     | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| <hr/>            |        |             |           |                    |          |          |
| Silicon          | ppm    | ASTM D5185m | >75       | <b>45</b>          | ---      | ---      |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>2</b>           | ---      | ---      |
| Water            |        | WC Method   | >0.2      | <b>NEG</b>         | ---      | ---      |
| Silt             | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Debris           | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Sand/Dirt        | scalar | *Visual     | NONE      | <b>NONE</b>        | ---      | ---      |
| Appearance       | scalar | *Visual     | NORML     | <b>NORML</b>       | ---      | ---      |
| Odor             | scalar | *Visual     | NORML     | <b>NORML</b>       | ---      | ---      |
| Emulsified Water | scalar | *Visual     | >0.2      | <b>NEG</b>         | ---      | ---      |
| <hr/>            |        |             |           |                    |          |          |
| Sodium           | ppm    | ASTM D5185m | >170      | <b>22</b>          | ---      | ---      |
| Boron            | ppm    | ASTM D5185m | 400       | <b>11</b>          | ---      | ---      |
| Barium           | ppm    | ASTM D5185m | 200       | <b>27</b>          | ---      | ---      |
| Molybdenum       | ppm    | ASTM D5185m | 12        | <b>0</b>           | ---      | ---      |
| Manganese        | ppm    | ASTM D5185m |           | <b>11</b>          | ---      | ---      |
| Magnesium        | ppm    | ASTM D5185m | 12        | <b>7</b>           | ---      | ---      |
| Calcium          | ppm    | ASTM D5185m | 150       | <b>51</b>          | ---      | ---      |
| Phosphorus       | ppm    | ASTM D5185m | 1650      | <b>229</b>         | ---      | ---      |
| Zinc             | ppm    | ASTM D5185m | 125       | <b>75</b>          | ---      | ---      |
| Sulfur           | ppm    | ASTM D5185m | 22500     | <b>11379</b>       | ---      | ---      |
| Visc @ 40°C      | cSt    | ASTM D445   | 143       | <b>138</b>         | ---      | ---      |



Certificate L2367

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

Sample No. : VCP454247

Lab Number : 06150806

Unique Number : 10980884

Test Package : MOB 1

Received : 16 Apr 2024

Tested : 17 Apr 2024

Diagnosed : 19 Apr 2024 - Jonathan Hester

ALTA EQUIPMENT COMPANY

1035 WYLIE DRIVE

BLOOMINGTON, IL

US 61705

Contact: MIKE MARTIN

mike.martin@altaequipment.com

T:

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)