



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



Machine Id  
**VOLVO A45G 342386**  
Component  
**Drop Box**  
Fluid  
**VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)**

**RECOMMENDATION**

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>ML0002530</b>   | ML0000899   | VCP415403   |
| Sample Date    |     | Client Info |           | <b>24 Jun 2024</b> | 11 Mar 2024 | 11 Oct 2023 |
| Machine Age    | hrs | Client Info |           | <b>8353</b>        | 7813        | 7383        |
| Oil Age        | hrs | Client Info |           | <b>540</b>         | 430         | 0           |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed |     | Client Info |           | <b>None</b>        | None        | Changed     |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ATTENTION   | NORMAL      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>11</b>    | 18   | 67   |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | <1   | 1    |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | <1   | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | <1   |
| Silver       | ppm    | ASTM D5185m |      | <b>&lt;1</b> | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >30  | <b>2</b>     | 4    | 9    |
| Lead         | ppm    | ASTM D5185m | >30  | <b>&lt;1</b> | <1   | 0    |
| Copper       | ppm    | ASTM D5185m | >30  | <b>2</b>     | <1   | <1   |
| Tin          | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | <1   | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | <1   | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

**CONTAMINATION**

There is no indication of any contamination in the oil.

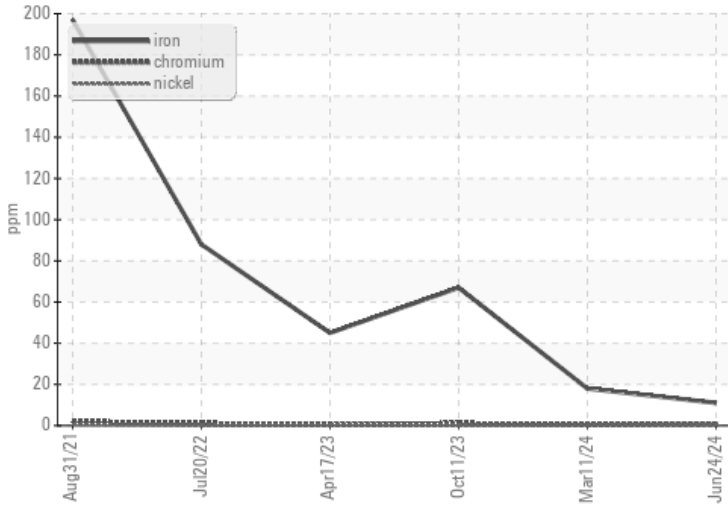
|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>6</b>     | 2     | 10    |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>1</b>     | 1     | 2     |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | NORML |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | NEG   |

**FLUID CONDITION**

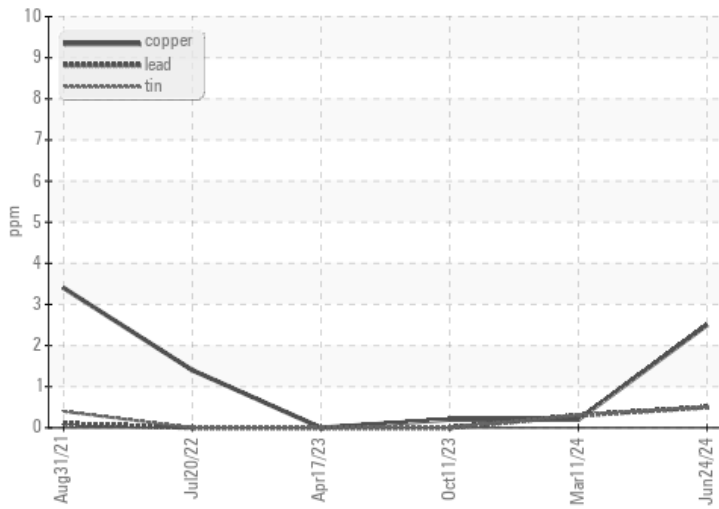
The condition of the oil is acceptable for the time in service.

|            |     |             |  |              |       |       |
|------------|-----|-------------|--|--------------|-------|-------|
| Sodium     | ppm | ASTM D5185m |  | <b>0</b>     | 0     | 1     |
| Boron      | ppm | ASTM D5185m |  | <b>293</b>   | 297   | 202   |
| Barium     | ppm | ASTM D5185m |  | <b>1</b>     | 0     | 0     |
| Molybdenum | ppm | ASTM D5185m |  | <b>2</b>     | 1     | 3     |
| Manganese  | ppm | ASTM D5185m |  | <b>&lt;1</b> | <1    | <1    |
| Magnesium  | ppm | ASTM D5185m |  | <b>2</b>     | 2     | 0     |
| Calcium    | ppm | ASTM D5185m |  | <b>84</b>    | 6     | 20    |
| Phosphorus | ppm | ASTM D5185m |  | <b>2229</b>  | 2313  | 1437  |
| Zinc       | ppm | ASTM D5185m |  | <b>37</b>    | 10    | 1     |
| Sulfur     | ppm | ASTM D5185m |  | <b>26833</b> | 31045 | 34750 |

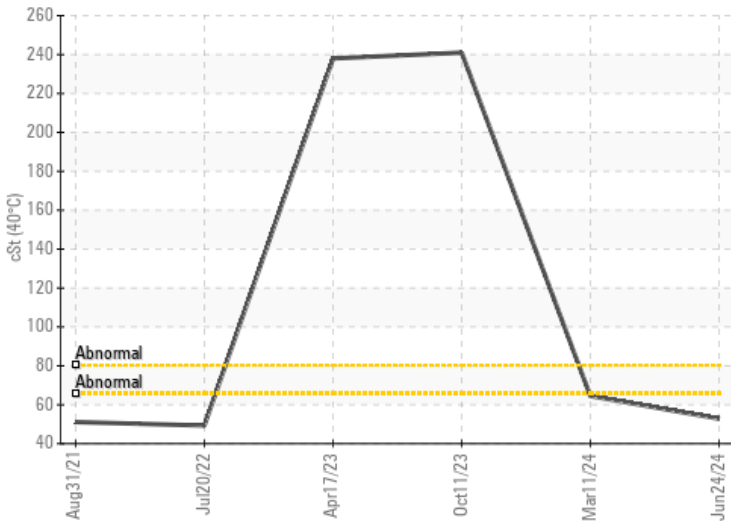
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0002530  
**Lab Number** : 06221878  
**Unique Number** : 11100075  
**Test Package** : CONST

**Received** : 26 Jun 2024  
**Tested** : 29 Jun 2024  
**Diagnosed** : 29 Jun 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
 1345 MOUNTAIN ROAD  
 GLEN ALLEN, VA  
 US 23060  
 Contact: KYLE RATLIFFE  
 KRATLIFFE@MCCLUNG-LOGAN.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)

T: (804)266-1611