



# VOLVO

## OIL ANALYSIS REPORT

WEAR **NORMAL**

CONTAMINATION **ABNORMAL**

FLUID CONDITION **NORMAL**



Area  
**Ascendum Machinery/500 Hour CSA [18757]**  
 Machine Id  
**VOLVO A40G 2210 (S/N 352888)**  
 Component  
**Drop Box**  
 Fluid  
**VOLVO SUPER GEAR OIL 75W-80-GO102 (--- GAL)**

### RECOMMENDATION

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

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number  |     | Client Info |           | VCP389448   | VCP389520   | ---      |
| Sample Date    |     | Client Info |           | 23 May 2023 | 16 Nov 2022 | ---      |
| Machine Age    | hrs | Client Info |           | 2016        | 1538        | ---      |
| Oil Age        | hrs | Client Info |           | 901         | 0           | ---      |
| Filter Age     | hrs | Client Info |           | 0           | 0           | ---      |
| Oil Changed    |     | Client Info |           | Not Changed | Not Changed | ---      |
| Filter Changed |     | Client Info |           | Not Changed | N/A         | ---      |
| Sample Status  |     |             |           | ABNORMAL    | ABNORMAL    | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |      |      |     |
|--------------|--------|-------------|------|------|------|-----|
| Iron         | ppm    | ASTM D5185m | >500 | 304  | 225  | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | 3    | 4    | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | 3    | 2    | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | 0    | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >30  | 1    | <1   | --- |
| Lead         | ppm    | ASTM D5185m | >30  | 0    | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >30  | 10   | 9    | --- |
| Tin          | ppm    | ASTM D5185m | >20  | <1   | <1   | --- |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | 0    | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | NONE | --- |

### CONTAMINATION

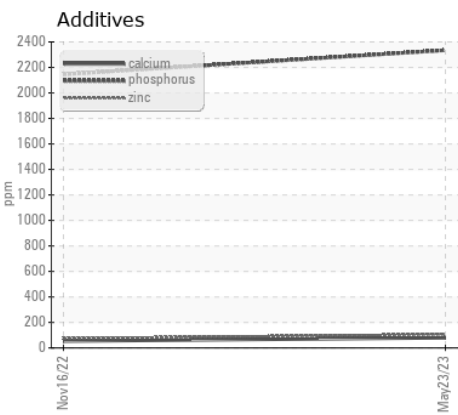
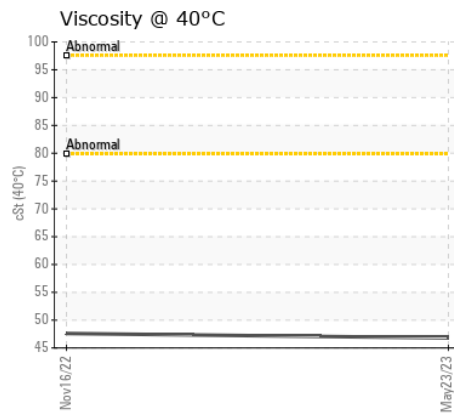
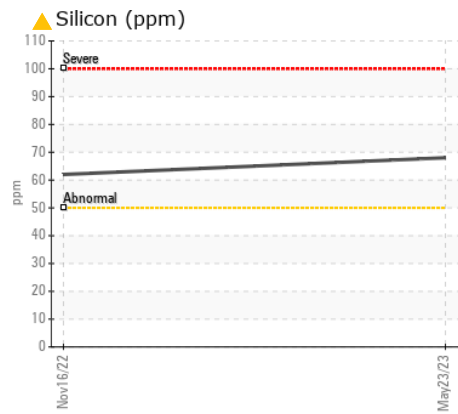
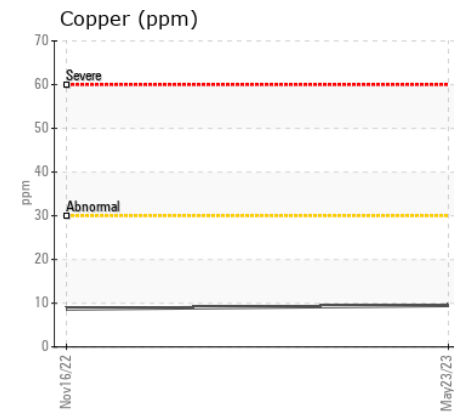
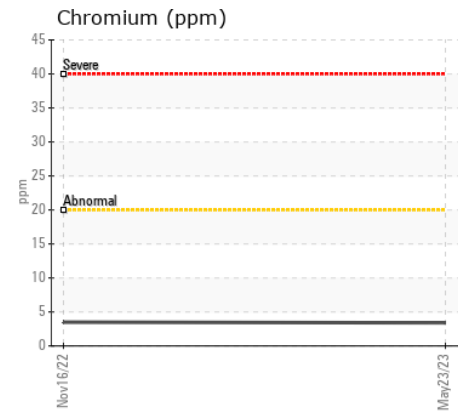
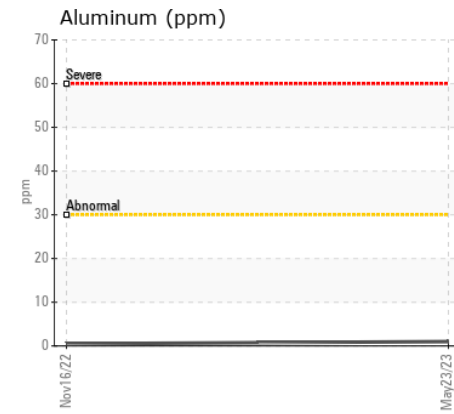
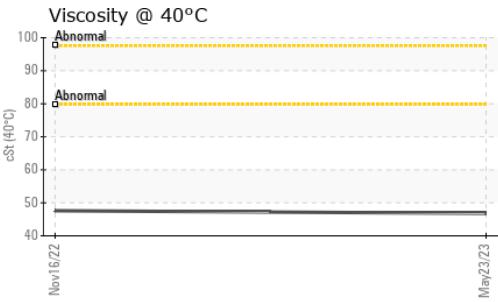
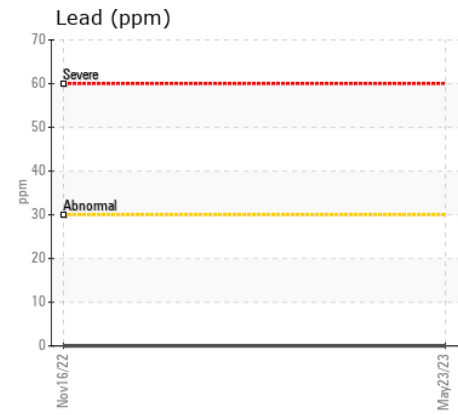
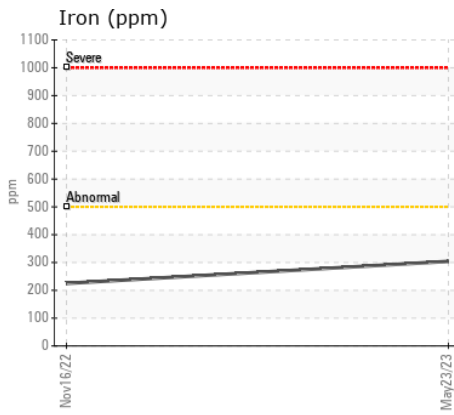
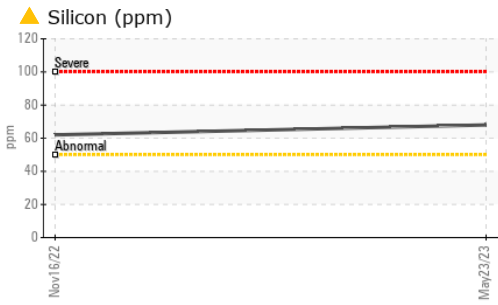
Elemental level of silicon (Si) above normal indicating ingress of seal material.

|                  |        |             |       |       |       |     |
|------------------|--------|-------------|-------|-------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >50   | ▲ 68  | ▲ 62  | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 2     | <1    | --- |
| Water            |        | WC Method   | >0.2  | NEG   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | NONE  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE  | NONE  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | NONE  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | NORML | NORML | --- |
| Odor             | scalar | *Visual     | NORML | NORML | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | NEG   | NEG   | --- |

### FLUID CONDITION

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

|             |     |             |  |       |       |     |
|-------------|-----|-------------|--|-------|-------|-----|
| Sodium      | ppm | ASTM D5185m |  | 6     | 4     | --- |
| Boron       | ppm | ASTM D5185m |  | 101   | 130   | --- |
| Barium      | ppm | ASTM D5185m |  | 0     | 0     | --- |
| Molybdenum  | ppm | ASTM D5185m |  | 13    | 17    | --- |
| Manganese   | ppm | ASTM D5185m |  | 5     | 4     | --- |
| Magnesium   | ppm | ASTM D5185m |  | 6     | 5     | --- |
| Calcium     | ppm | ASTM D5185m |  | 80    | 54    | --- |
| Phosphorus  | ppm | ASTM D5185m |  | 2335  | 2146  | --- |
| Zinc        | ppm | ASTM D5185m |  | 107   | 75    | --- |
| Sulfur      | ppm | ASTM D5185m |  | 31089 | 25056 | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | 46.8  | 47.6  | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : VCP389448 **Received** : 08 Jun 2023  
**Lab Number** : 05868939 **Diagnosed** : 12 Jun 2023  
**Unique Number** : 10508723 **Diagnostician** : Don Baldrige  
**Test Package** : MOB 1

**TRIANGLE GRADING AND PAVING INC**  
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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)