



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Ascendum Machinery/500 Hour CSA**  
Machine Id  
**VOLVO A40G 2305 (S/N 353314)**  
Component  
**Bogie/Center Axle**  
Fluid  
**NOT GIVEN (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample.

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2 |
|----------------|-----|-------------|-----------|-------------|-------------|----------|
| Sample Number  |     | Client Info |           | ASC0009795  | ASC0007996  | ---      |
| Sample Date    |     | Client Info |           | 12 Jun 2024 | 08 Feb 2024 | ---      |
| Machine Age    | hrs | Client Info |           | 1936        | 1472        | ---      |
| Oil Age        | hrs | Client Info |           | 1936        | 1472        | ---      |
| Filter Age     | hrs | Client Info |           | 0           | 0           | ---      |
| Oil Changed    |     | Client Info |           | Not Changd  | Not Changd  | ---      |
| Filter Changed |     | Client Info |           | None        | N/A         | ---      |
| Sample Status  |     |             |           | NORMAL      | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |      |      |     |
|--------------|--------|-------------|------|------|------|-----|
| Iron         | ppm    | ASTM D5185m | >900 | 162  | 223  | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | 2    | 3    | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <1   | 1    | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | 0    | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | 0    | --- |
| Aluminum     | ppm    | ASTM D5185m | >30  | 3    | <1   | --- |
| Lead         | ppm    | ASTM D5185m | >50  | 0    | 0    | --- |
| Copper       | ppm    | ASTM D5185m | >150 | 1    | 1    | --- |
| 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

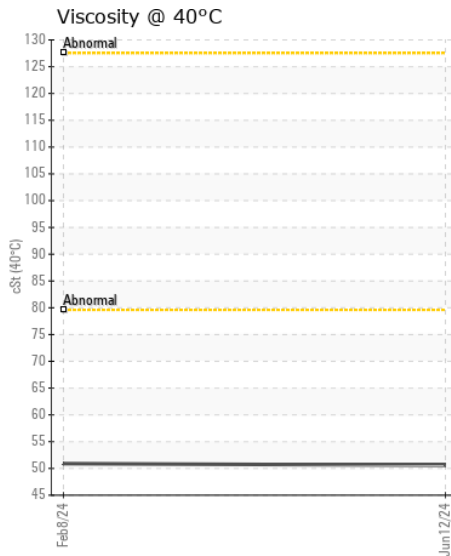
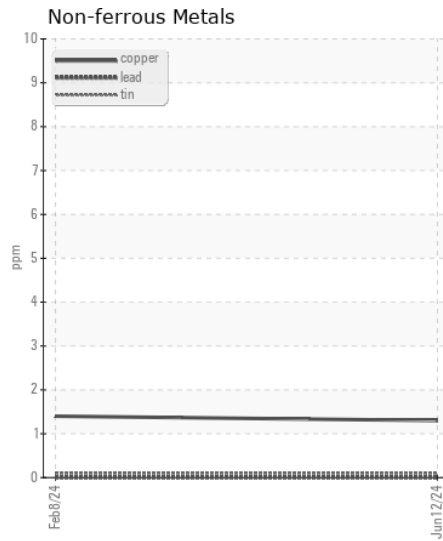
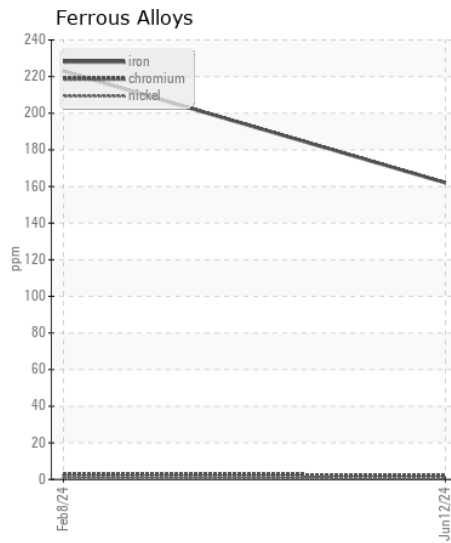
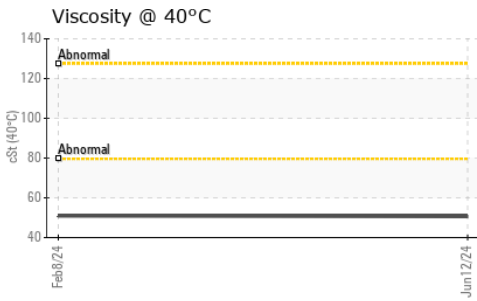
There is no indication of any contamination in the oil.

|                  |        |             |       |       |       |     |
|------------------|--------|-------------|-------|-------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >50   | 4     | 4     | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 5     | 4     | --- |
| Water            |        | WC Method   | >0.2  | NEG   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | MODER | MODER | --- |
| 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 |  | 4     | 3     | --- |
| Boron       | ppm | ASTM D5185m |  | 319   | 256   | --- |
| Barium      | ppm | ASTM D5185m |  | <1    | 0     | --- |
| Molybdenum  | ppm | ASTM D5185m |  | 2     | <1    | --- |
| Manganese   | ppm | ASTM D5185m |  | 6     | 8     | --- |
| Magnesium   | ppm | ASTM D5185m |  | 2     | 2     | --- |
| Calcium     | ppm | ASTM D5185m |  | 27    | 37    | --- |
| Phosphorus  | ppm | ASTM D5185m |  | 2409  | 2344  | --- |
| Zinc        | ppm | ASTM D5185m |  | 22    | 10    | --- |
| Sulfur      | ppm | ASTM D5185m |  | 31413 | 25928 | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | 50.6  | 50.9  | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009795  
**Lab Number** : 06210557  
**Unique Number** : 11083421  
**Test Package** : CONST

**Received** : 14 Jun 2024  
**Tested** : 17 Jun 2024  
**Diagnosed** : 17 Jun 2024 - Wes Davis

**TRIANGLE GRADING AND PAVING INC**  
 1521 Huffman Mill Rd  
 BURLINGTON, NC  
 US 27216

Contact: KAREN HILLIARD  
 khilliard@trianglegradingpaving.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: (336)584-1745  
 F: (336)584-0145