



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Ascendum Machinery/500 Hour CSA**  
Machine Id  
**VOLVO L150H 2263 (S/N L150HV7093)**  
Component  
**Front Axle**  
Fluid  
**TRANSAXLE OIL SAE 75W80 (--- 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 |           | ASC0009225  | ASC0010004  | VCP436647   |
| Sample Date    |     | Client Info |           | 27 Jun 2024 | 17 Apr 2024 | 19 Feb 2024 |
| Machine Age    | hrs | Client Info |           | 4590        | 4005        | 3554        |
| Oil Age        | hrs | Client Info |           | 500         | 3005        | 0           |
| Filter Age     | hrs | Client Info |           | 500         | 2005        | 0           |
| Oil Changed    |     | Client Info |           | Not Changed | Changed     | Not Changed |
| Filter Changed |     | Client Info |           | Not Changed | N/A         | Not Changed |
| Sample Status  |     |             |           | NORMAL      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |      |      |      |
|--------------|--------|-------------|------|------|------|------|
| Iron         | ppm    | ASTM D5185m | >500 | 80   | 154  | 4    |
| Chromium     | ppm    | ASTM D5185m | >20  | 1    | 4    | <1   |
| Nickel       | ppm    | ASTM D5185m | >10  | 0    | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | 0    | 0    | 0    |
| Silver       | ppm    | ASTM D5185m |      | 0    | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >30  | 3    | <1   | 2    |
| Lead         | ppm    | ASTM D5185m | >50  | 0    | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >120 | 2    | 6    | <1   |
| Tin          | ppm    | ASTM D5185m | >20  | 0    | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | 0    | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | NONE | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | NONE | NONE | NONE |

### CONTAMINATION

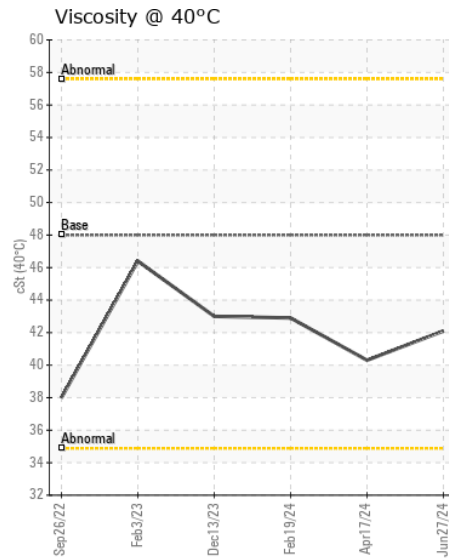
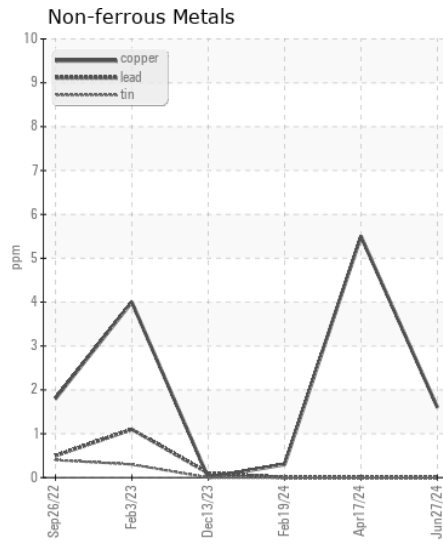
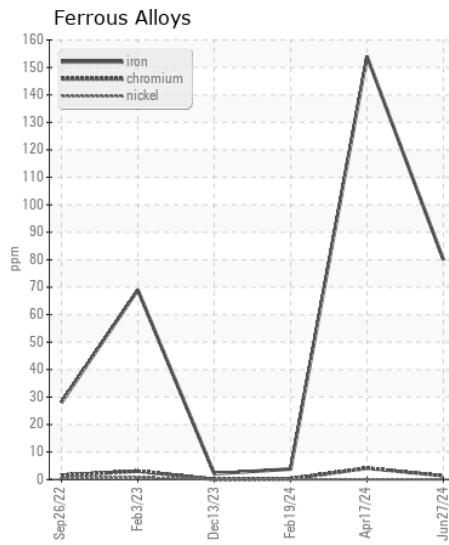
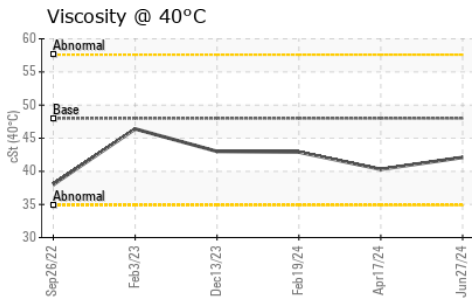
There is no indication of any contamination in the oil.

|                  |        |             |       |       |       |       |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | 17    | 12    | 11    |
| Potassium        | ppm    | ASTM D5185m | >20   | 2     | <1    | 2     |
| Water            |        | WC Method   | >0.2  | NEG   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | NONE  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | NONE  | NONE  | 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   |

### FLUID CONDITION

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

|             |     |             |      |      |      |      |
|-------------|-----|-------------|------|------|------|------|
| Sodium      | ppm | ASTM D5185m |      | 0    | 9    | 0    |
| Boron       | ppm | ASTM D5185m | 160  | 125  | 125  | 146  |
| Barium      | ppm | ASTM D5185m | 10   | 0    | 0    | <1   |
| Molybdenum  | ppm | ASTM D5185m | 25   | 1    | 5    | 0    |
| Manganese   | ppm | ASTM D5185m |      | 1    | 7    | 0    |
| Magnesium   | ppm | ASTM D5185m | 12   | 6    | 12   | 18   |
| Calcium     | ppm | ASTM D5185m | 3750 | 3806 | 3802 | 3762 |
| Phosphorus  | ppm | ASTM D5185m | 1200 | 1284 | 1399 | 1148 |
| Zinc        | ppm | ASTM D5185m | 1500 | 1617 | 1630 | 1602 |
| Sulfur      | ppm | ASTM D5185m | 6000 | 5084 | 5292 | 4740 |
| Visc @ 40°C | cSt | ASTM D445   | 48   | 42.1 | 40.3 | 42.9 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009225  
**Lab Number** : 06226642  
**Unique Number** : 11110135  
**Test Package** : CONST

**Received** : 02 Jul 2024  
**Tested** : 03 Jul 2024  
**Diagnosed** : 03 Jul 2024 - Wes Davis

**G S MATERIALS 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)