



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Ascendum Machinery**  
Machine Id  
**VOLVO L150H RL66 (S/N L150HV6551)**  
Component  
**Front Axle**  
Fluid  
**VOLVO WB 102 (12 GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1    | History2    |
|----------------|-----|-------------|-----------|-------------|-------------|-------------|
| Sample Number  |     | Client Info |           | ASC0009904  | ASC0007703  | ASC0001217  |
| Sample Date    |     | Client Info |           | 09 May 2024 | 01 Mar 2024 | 29 Aug 2023 |
| Machine Age    | hrs | Client Info |           | 15953       | 15485       | 14000       |
| Oil Age        | hrs | Client Info |           | 8388        | 9405        | 6080        |
| Filter Age     | hrs | Client Info |           | 0           | 0           | 0           |
| Oil Changed    |     | Client Info |           | Changed     | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | Not Changed | Not Changed | Not Changed |
| Sample Status  |     |             |           | ATTENTION   | ATTENTION   | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |      |      |      |
|--------------|--------|-------------|------|------|------|------|
| Iron         | ppm    | ASTM D5185m | >500 | 348  | 355  | 118  |
| Chromium     | ppm    | ASTM D5185m | >20  | 3    | 3    | 1    |
| Nickel       | ppm    | ASTM D5185m | >10  | 0    | <1   | <1   |
| Titanium     | ppm    | ASTM D5185m |      | 2    | 2    | <1   |
| Silver       | ppm    | ASTM D5185m |      | 0    | 0    | 0    |
| Aluminum     | ppm    | ASTM D5185m | >30  | 12   | 9    | 5    |
| Lead         | ppm    | ASTM D5185m | >50  | 0    | 0    | <1   |
| Copper       | ppm    | ASTM D5185m | >120 | 0    | <1   | <1   |
| Tin          | ppm    | ASTM D5185m | >20  | <1   | 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

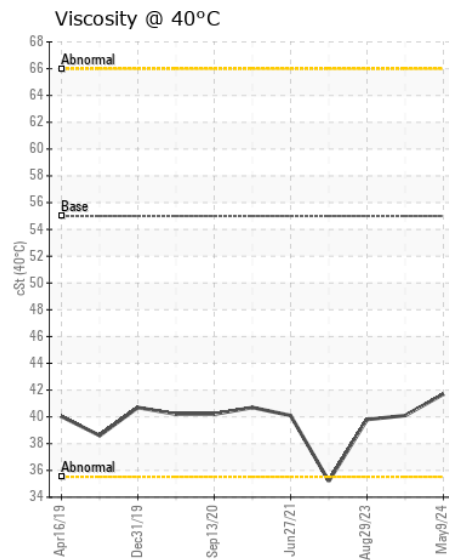
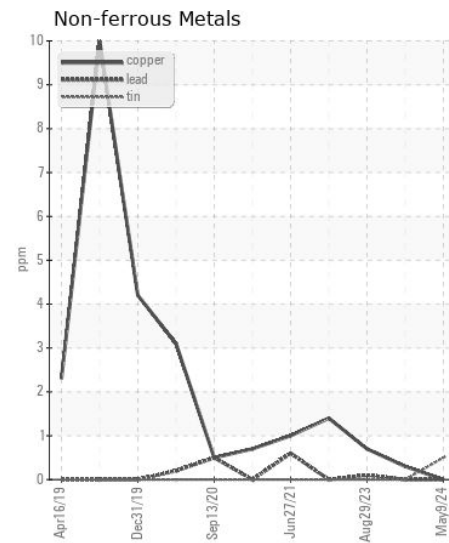
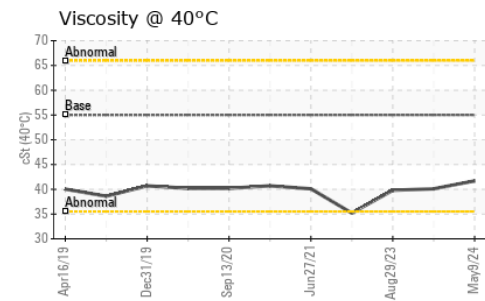
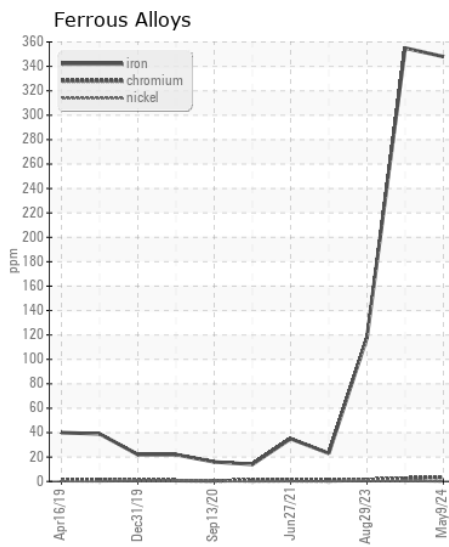
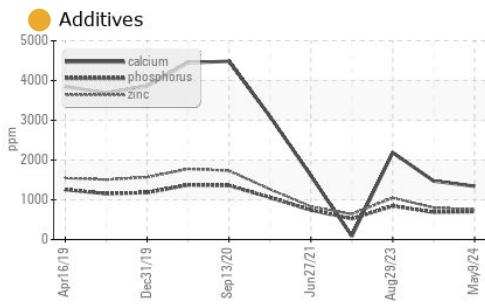
There is no indication of any contamination in the oil.

|                  |        |             |       |       |       |       |
|------------------|--------|-------------|-------|-------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >50   | 42    | 36    | 16    |
| Potassium        | ppm    | ASTM D5185m | >20   | 2     | 4     | 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   | 0.2%  | NEG   |

### FLUID CONDITION

Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

|             |     |             |    |      |      |      |
|-------------|-----|-------------|----|------|------|------|
| Sodium      | ppm | ASTM D5185m |    | 9    | 10   | 4    |
| Boron       | ppm | ASTM D5185m |    | 44   | 44   | 72   |
| Barium      | ppm | ASTM D5185m |    | 1    | 0    | 2    |
| Molybdenum  | ppm | ASTM D5185m |    | 0    | 0    | 0    |
| Manganese   | ppm | ASTM D5185m |    | 4    | 3    | 1    |
| Magnesium   | ppm | ASTM D5185m |    | 10   | 11   | 8    |
| Calcium     | ppm | ASTM D5185m |    | 1342 | 1472 | 2189 |
| Phosphorus  | ppm | ASTM D5185m |    | 702  | 685  | 844  |
| Zinc        | ppm | ASTM D5185m |    | 754  | 800  | 1049 |
| Sulfur      | ppm | ASTM D5185m |    | 3122 | 2034 | 3151 |
| Visc @ 40°C | cSt | ASTM D445   | 55 | 41.7 | 40.1 | 39.8 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009904  
**Lab Number** : 06177612  
**Unique Number** : 11023665  
**Test Package** : CONST  
**Received** : 13 May 2024  
**Tested** : 14 May 2024  
**Diagnosed** : 15 May 2024 - Don Baldrige

**HILCO TRANSPORT**  
 7700 KENMONT RD  
 GREENSBORO, NC  
 US 27409  
 Contact: MIKE LAUGHEAD  
 mlaughead@hilcotransport.com  
 T: (336)273-9441  
 F: (336)273-9701

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)