



# ASCENDUM

## OIL ANALYSIS REPORT



Area  
**Ascendum Machinery**  
Machine Id  
**VOLVO L180H 14 (S/N 5269)**  
Component  
**Transmission (Auto)**  
Fluid  
**VOLVO AUTOMATIC TRANSMISSION FLUID AT102 (--- GAL)**

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

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>ASC0000545</b>  | ASC0005180  | ASC0005429  |
| Sample Date    |     | Client Info |           | <b>29 Dec 2023</b> | 27 Nov 2023 | 26 Oct 2023 |
| Machine Age    | hrs | Client Info |           | <b>14523</b>       | 14071       | 13517       |
| Oil Age        | hrs | Client Info |           | <b>13062</b>       | 12610       | 12566       |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changed</b> | Not Changed | Not Changed |
| Filter Changed |     | Client Info |           | <b>Not Changed</b> | Not Changed | Not Changed |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | NORMAL      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |      |
|--------------|--------|-------------|------|--------------|------|------|
| Iron         | ppm    | ASTM D5185m | >160 | <b>15</b>    | 13   | 17   |
| Chromium     | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>0</b>     | 0    | 0    |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| Silver       | ppm    | ASTM D5185m | >5   | <b>0</b>     | <1   | 0    |
| Aluminum     | ppm    | ASTM D5185m | >50  | <b>0</b>     | 0    | 0    |
| Lead         | ppm    | ASTM D5185m | >50  | <b>0</b>     | 0    | 0    |
| Copper       | ppm    | ASTM D5185m | >225 | <b>5</b>     | 4    | 4    |
| Tin          | ppm    | ASTM D5185m | >10  | <b>&lt;1</b> | 0    | 0    |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | 0    |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | NONE |

### CONTAMINATION

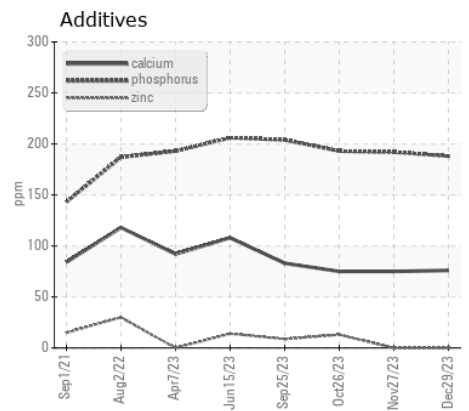
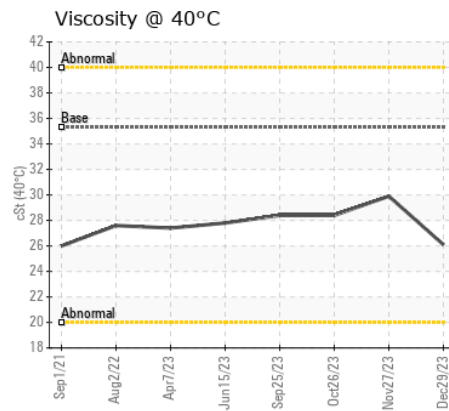
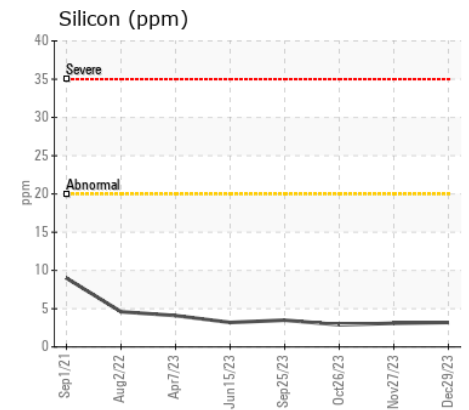
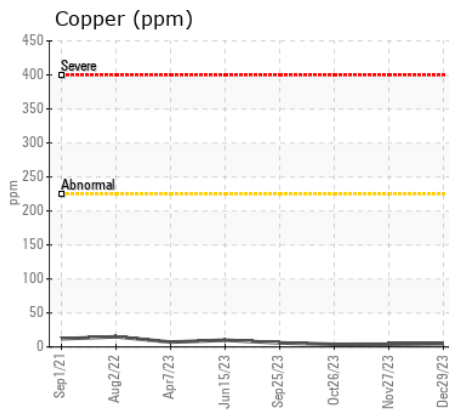
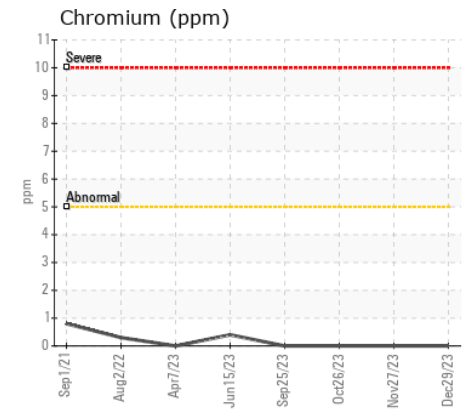
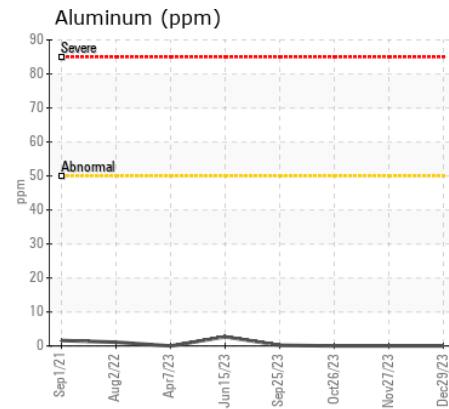
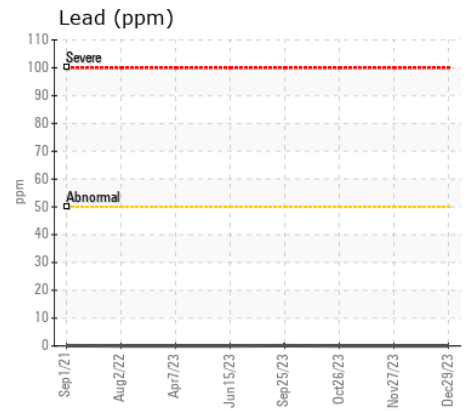
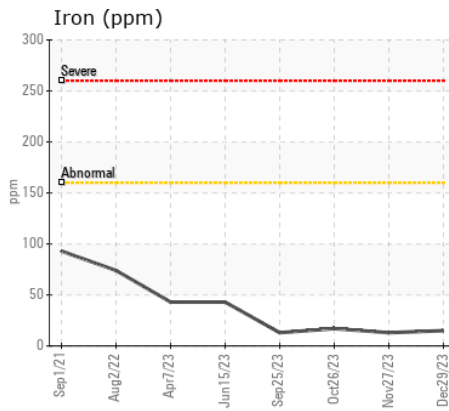
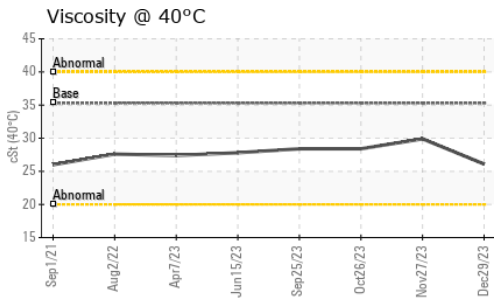
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >20   | <b>3</b>     | 3     | 3     |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>     | <1    | 0     |
| Water            |        | WC Method   | >0.1  | <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     | >0.1  | <b>NEG</b>   | NEG   | NEG   |

### FLUID CONDITION

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

|             |     |             |      |              |      |      |
|-------------|-----|-------------|------|--------------|------|------|
| Sodium      | ppm | ASTM D5185m |      | <b>2</b>     | 2    | 2    |
| Boron       | ppm | ASTM D5185m | 187  | <b>83</b>    | 83   | 85   |
| Barium      | ppm | ASTM D5185m | 0.0  | <b>0</b>     | 0    | 0    |
| Molybdenum  | ppm | ASTM D5185m | 0.0  | <b>0</b>     | 0    | 0    |
| Manganese   | ppm | ASTM D5185m | 0.0  | <b>&lt;1</b> | <1   | 0    |
| Magnesium   | ppm | ASTM D5185m | 6.8  | <b>&lt;1</b> | 0    | <1   |
| Calcium     | ppm | ASTM D5185m | 215  | <b>76</b>    | 75   | 75   |
| Phosphorus  | ppm | ASTM D5185m | 445  | <b>188</b>   | 192  | 193  |
| Zinc        | ppm | ASTM D5185m | 56   | <b>0</b>     | 0    | 13   |
| Sulfur      | ppm | ASTM D5185m | 1336 | <b>1681</b>  | 1766 | 1976 |
| Visc @ 40°C | cSt | ASTM D445   | 35.3 | <b>26.1</b>  | 29.9 | 28.4 |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0000545 **Received** : 09 Jan 2024  
**Lab Number** : 06055663 **Diagnosed** : 10 Jan 2024  
**Unique Number** : 10821612 **Diagnostician** : Jonathan Hester  
**Test Package** : MOBCE

**EGGER WOOD PRODUCTS**  
 300 EGGER PARKWAY  
 LINWOOD, NC  
 US 27299  
 Contact: HELMUT THOMAY  
 helmut.thomay@egger.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)

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F: