



# ASCENDUM

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO EC480 311086**  
Component  
**Right Final Drive**  
Fluid  
**GEAR OIL SAE 80W90 (--- GAL)**

### RECOMMENDATION

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

### WEAR

All component wear rates are normal.

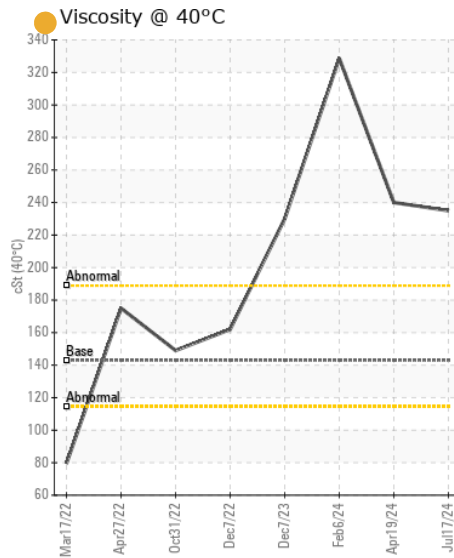
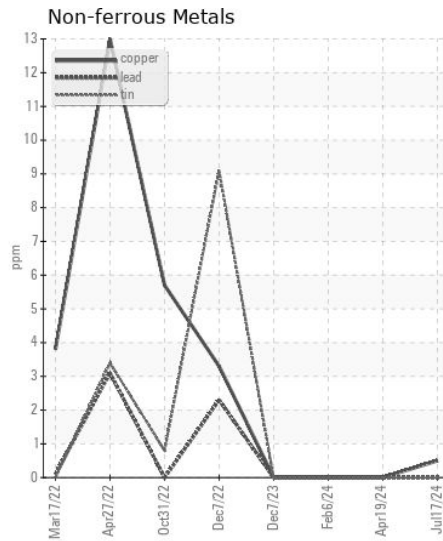
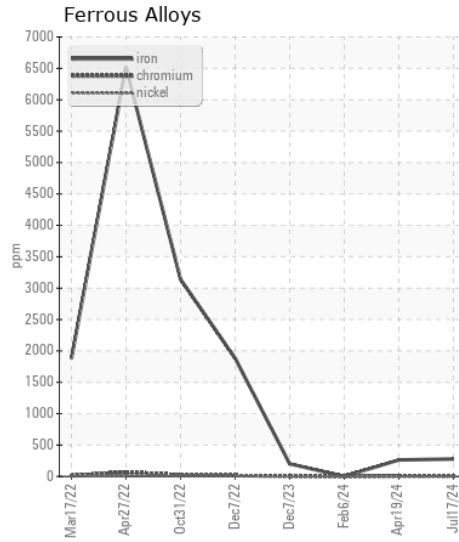
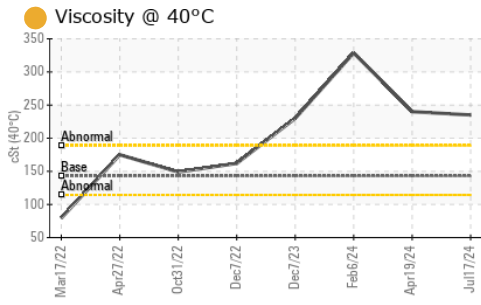
### CONTAMINATION

There is no indication of any contamination in the oil.

### FLUID CONDITION

The oil viscosity is higher than normal. Confirm oil type.

| Test             | UOM    | Method      | Limit/Abn | Current            | History1    | History2    |
|------------------|--------|-------------|-----------|--------------------|-------------|-------------|
| Sample Number    |        | Client Info |           | <b>ASC0009501</b>  | ASC0010011  | ASC0008920  |
| Sample Date      |        | Client Info |           | <b>17 Jul 2024</b> | 19 Apr 2024 | 06 Feb 2024 |
| Machine Age      | hrs    | Client Info |           | <b>10571</b>       | 10181       | 9919        |
| Oil Age          | hrs    | Client Info |           | <b>500</b>         | 500         | 500         |
| Filter Age       | hrs    | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed      |        | Client Info |           | <b>Changed</b>     | Changed     | Changed     |
| Filter Changed   |        | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status    |        |             |           | <b>ATTENTION</b>   | ATTENTION   | ATTENTION   |
| Iron             | ppm    | ASTM D5185m | >3360     | <b>278</b>         | 263         | <1          |
| Chromium         | ppm    | ASTM D5185m | >35       | <b>8</b>           | 8           | <1          |
| Nickel           | ppm    | ASTM D5185m | >8        | <b>&lt;1</b>       | 0           | 0           |
| Titanium         | ppm    | ASTM D5185m | >15       | <b>&lt;1</b>       | <1          | <1          |
| Silver           | ppm    | ASTM D5185m |           | <b>0</b>           | 0           | 0           |
| Aluminum         | ppm    | ASTM D5185m | >185      | <b>4</b>           | 3           | 0           |
| Lead             | ppm    | ASTM D5185m | >5        | <b>0</b>           | 0           | 0           |
| Copper           | ppm    | ASTM D5185m | >80       | <b>&lt;1</b>       | 0           | 0           |
| Tin              | ppm    | ASTM D5185m | >8        | <b>0</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        |
| Silicon          | ppm    | ASTM D5185m | >1100     | <b>24</b>          | 18          | 0           |
| Potassium        | ppm    | ASTM D5185m | >20       | <b>2</b>           | <1          | 0           |
| Water            |        | WC Method   | >0.2      | <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     | >0.2      | <b>NEG</b>         | NEG         | NEG         |
| Sodium           | ppm    | ASTM D5185m | >170      | <b>&lt;1</b>       | <1          | <1          |
| Boron            | ppm    | ASTM D5185m | 400       | <b>180</b>         | 187         | 212         |
| Barium           | ppm    | ASTM D5185m | 200       | <b>0</b>           | 2           | 0           |
| Molybdenum       | ppm    | ASTM D5185m | 12        | <b>&lt;1</b>       | <1          | 0           |
| Manganese        | ppm    | ASTM D5185m |           | <b>3</b>           | 3           | <1          |
| Magnesium        | ppm    | ASTM D5185m | 12        | <b>1</b>           | 1           | 0           |
| Calcium          | ppm    | ASTM D5185m | 150       | <b>0</b>           | 18          | 5           |
| Phosphorus       | ppm    | ASTM D5185m | 1650      | <b>937</b>         | 1125        | 1032        |
| Zinc             | ppm    | ASTM D5185m | 125       | <b>18</b>          | 19          | 0           |
| Sulfur           | ppm    | ASTM D5185m | 22500     | <b>26079</b>       | 37250       | 27409       |
| Visc @ 40°C      | cSt    | ASTM D445   | 143       | <b>235</b>         | 240         | 328.7       |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0009501  
**Lab Number** : 06240695  
**Unique Number** : 11129529  
**Test Package** : CONST  
**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 20 Jul 2024 - Don Baldrige

**HANSON SOUTHEAST**  
 NC HWY 117  
 ERWIN, NC  
 US 28339  
 Contact: Service Manager

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: