



# ASCENDUM

## OIL ANALYSIS REPORT

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



Area  
**Ascendum Machinery**  
Machine Id  
**VOLVO L180H 5388**  
Component  
**Front Axle**  
Fluid  
**VOLVO WB 102 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>ASC0008224</b>  | ASC0005410  | ---      |
| Sample Date    |     | Client Info |           | <b>16 Jul 2024</b> | 02 Oct 2023 | ---      |
| Machine Age    | hrs | Client Info |           | <b>5014</b>        | 4068        | ---      |
| Oil Age        | hrs | Client Info |           | <b>946</b>         | 4068        | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changed</b> | Changed     | ---      |
| Filter Changed |     | Client Info |           | <b>Not Changed</b> | Changed     | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | NORMAL      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |              |      |     |
|--------------|--------|-------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185m | >500 | <b>26</b>    | 96   | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>&lt;1</b> | 4    | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>0</b>     | <1   | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0    | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | 1    | --- |
| Aluminum     | ppm    | ASTM D5185m | >30  | <b>&lt;1</b> | 1    | --- |
| Lead         | ppm    | ASTM D5185m | >50  | <b>0</b>     | <1   | --- |
| Copper       | ppm    | ASTM D5185m | >120 | <b>14</b>    | 51   | --- |
| Tin          | ppm    | ASTM D5185m | >20  | <b>0</b>     | 0    | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | <1   | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE | --- |

### CONTAMINATION

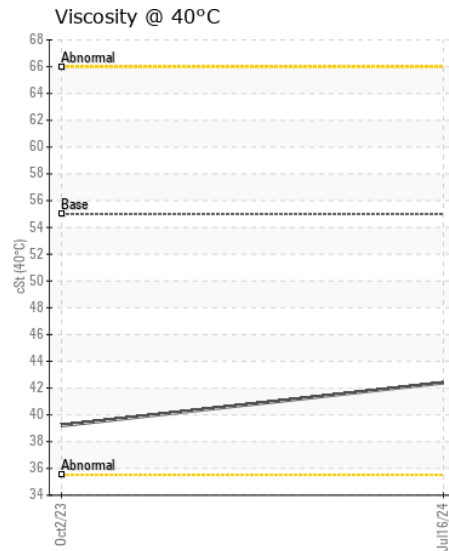
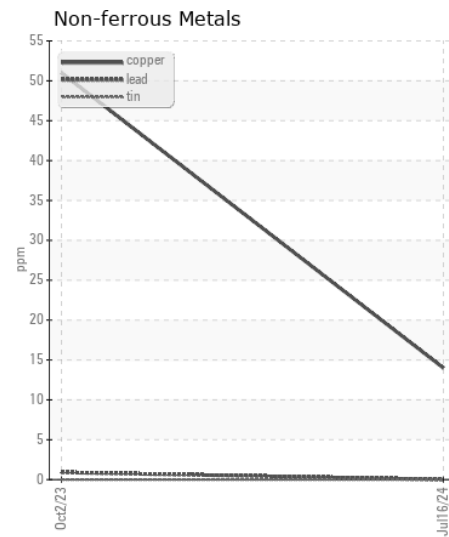
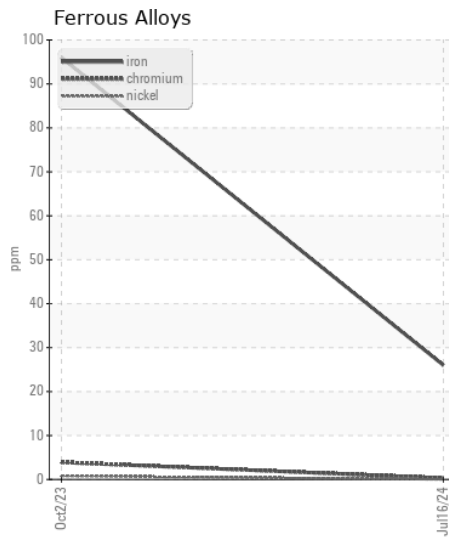
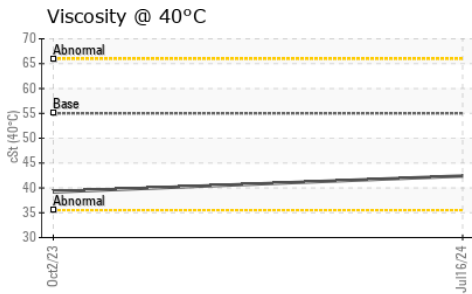
There is no indication of any contamination in the oil.

|                  |        |             |       |              |       |     |
|------------------|--------|-------------|-------|--------------|-------|-----|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>9</b>     | 12    | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>0</b>     | 2     | --- |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | NEG   | --- |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | NORML | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | NEG   | --- |

### FLUID CONDITION

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

|             |     |             |    |             |      |     |
|-------------|-----|-------------|----|-------------|------|-----|
| Sodium      | ppm | ASTM D5185m |    | <b>3</b>    | 9    | --- |
| Boron       | ppm | ASTM D5185m |    | <b>110</b>  | 146  | --- |
| Barium      | ppm | ASTM D5185m |    | <b>0</b>    | 0    | --- |
| Molybdenum  | ppm | ASTM D5185m |    | <b>2</b>    | 5    | --- |
| Manganese   | ppm | ASTM D5185m |    | <b>1</b>    | 7    | --- |
| Magnesium   | ppm | ASTM D5185m |    | <b>7</b>    | 14   | --- |
| Calcium     | ppm | ASTM D5185m |    | <b>3926</b> | 3758 | --- |
| Phosphorus  | ppm | ASTM D5185m |    | <b>1300</b> | 1319 | --- |
| Zinc        | ppm | ASTM D5185m |    | <b>1389</b> | 1638 | --- |
| Sulfur      | ppm | ASTM D5185m |    | <b>5091</b> | 3882 | --- |
| Visc @ 40°C | cSt | ASTM D445   | 55 | <b>42.4</b> | 39.2 | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0008224  
**Lab Number** : 06240781  
**Unique Number** : 11129615  
**Test Package** : CONST

**Received** : 18 Jul 2024  
**Tested** : 19 Jul 2024  
**Diagnosed** : 19 Jul 2024 - Wes Davis

**IMERYS CARBONATES USA INC**  
 102 CONCEPT DR  
 KINGS MOUNTAIN, NC  
 US 28086  
 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)

T:  
F: