



# ASCENDUM

## OIL ANALYSIS REPORT

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

Machine Id  
**VOLVO 311394**  
Component  
**Swing Drive**  
Fluid  
**{not provided} (--- GAL)**

### RECOMMENDATION

No corrective action is recommended at this time. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | ASC0003351  | ---      | ---      |
| Sample Date    |     | Client Info |           | 27 Jun 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 3124        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed     | ---      | ---      |
| Filter Changed |     | Client Info |           | N/A         | ---      | ---      |
| Sample Status  |     |             |           | ABNORMAL    | ---      | ---      |

### WEAR

Gear wear is indicated.

|              |        |             |      |       |     |     |
|--------------|--------|-------------|------|-------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >400 | ▲ 453 | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | 3     | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <1    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <1    | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <1    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >25  | 3     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >50  | <1    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >200 | 9     | --- | --- |
| Tin          | ppm    | ASTM D5185m | >10  | 0     | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <1    | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE  | --- | --- |

### CONTAMINATION

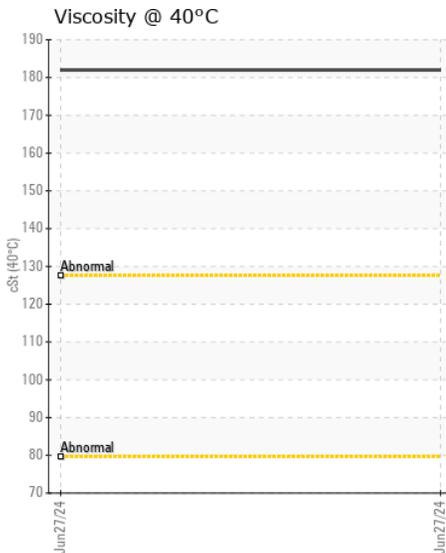
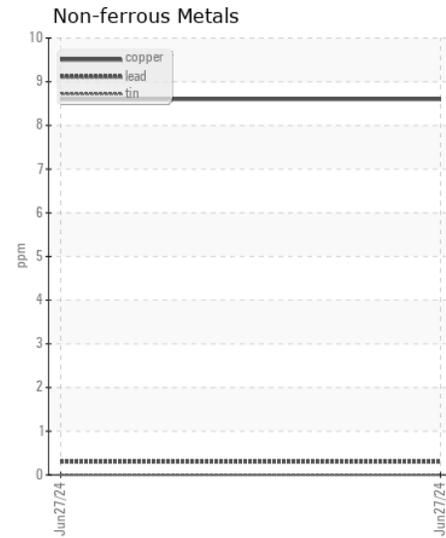
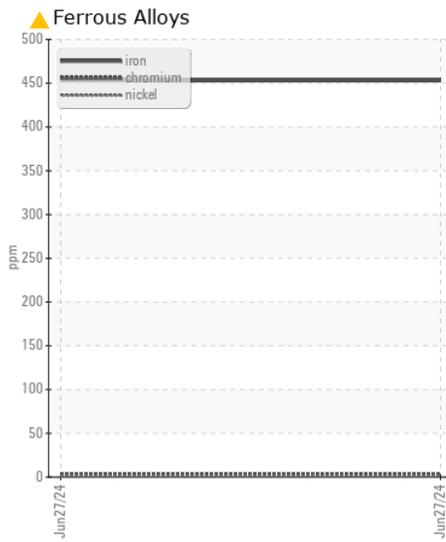
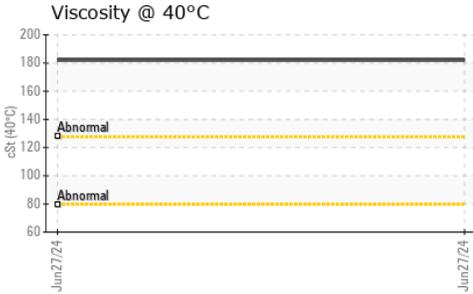
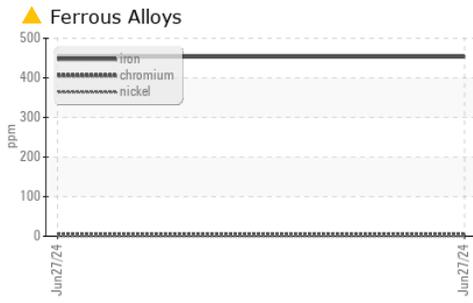
There is no indication of any contamination in the oil.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >50   | 15    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | 2     | --- | --- |
| Water            |        | WC Method   | >0.2  | NEG   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | MODER | --- | --- |
| Debris           | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | NONE  | --- | --- |
| Appearance       | scalar | *Visual     | NORML | NORML | --- | --- |
| Odor             | scalar | *Visual     | NORML | NORML | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | NEG   | --- | --- |

### FLUID CONDITION

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

|             |     |             |  |       |     |     |
|-------------|-----|-------------|--|-------|-----|-----|
| Sodium      | ppm | ASTM D5185m |  | 0     | --- | --- |
| Boron       | ppm | ASTM D5185m |  | 1     | --- | --- |
| Barium      | ppm | ASTM D5185m |  | 1     | --- | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <1    | --- | --- |
| Manganese   | ppm | ASTM D5185m |  | 4     | --- | --- |
| Magnesium   | ppm | ASTM D5185m |  | <1    | --- | --- |
| Calcium     | ppm | ASTM D5185m |  | 0     | --- | --- |
| Phosphorus  | ppm | ASTM D5185m |  | 211   | --- | --- |
| Zinc        | ppm | ASTM D5185m |  | 21    | --- | --- |
| Sulfur      | ppm | ASTM D5185m |  | 12444 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | 182   | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0003351  
**Lab Number** : 06224907  
**Unique Number** : 11103104  
**Test Package** : CONST

**Received** : 01 Jul 2024  
**Tested** : 02 Jul 2024  
**Diagnosed** : 02 Jul 2024 - Don Baldrige

**160 - ASCENDUM MACHINERY INC - MILLS RIVER**  
 215 FANNING FIELDS RD  
 MILLS RIVER, NC  
 US 28759  
 Contact: Kendall Rhodes  
 kendall.rhodes@ascendummachinery.com  
 T:  
 F: (828)687-0622

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)