



# ASCENDUM

## OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO L90H 625703**  
Component  
**Rear Axle**  
Fluid  
**TDH FLUID SAE 70W80 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current     | History1 | History2 |
|----------------|-----|-------------|-----------|-------------|----------|----------|
| Sample Number  |     | Client Info |           | ASC0010140  | ---      | ---      |
| Sample Date    |     | Client Info |           | 02 Apr 2024 | ---      | ---      |
| Machine Age    | hrs | Client Info |           | 6885        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | 6885        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | 0           | ---      | ---      |
| Oil Changed    |     | Client Info |           | Changed     | ---      | ---      |
| Filter Changed |     | Client Info |           | Not Changed | ---      | ---      |
| Sample Status  |     |             |           | NORMAL      | ---      | ---      |

### WEAR

All component wear rates are normal.

|              |        |             |      |      |     |     |
|--------------|--------|-------------|------|------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >300 | 117  | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >10  | 2    | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >4   | 0    | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | 0    | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >15  | 1    | --- | --- |
| Lead         | ppm    | ASTM D5185m | >4   | 2    | --- | --- |
| Copper       | ppm    | ASTM D5185m | >200 | 141  | --- | --- |
| Tin          | ppm    | ASTM D5185m | >15  | 11   | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <1   | --- | --- |
| White Metal  | scalar | *Visual     | NONE | NONE | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | NONE | --- | --- |

### CONTAMINATION

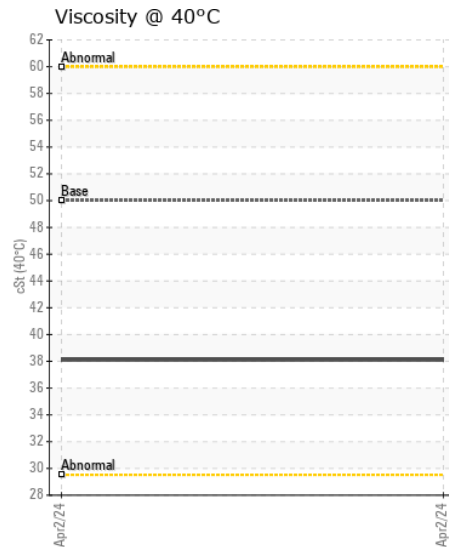
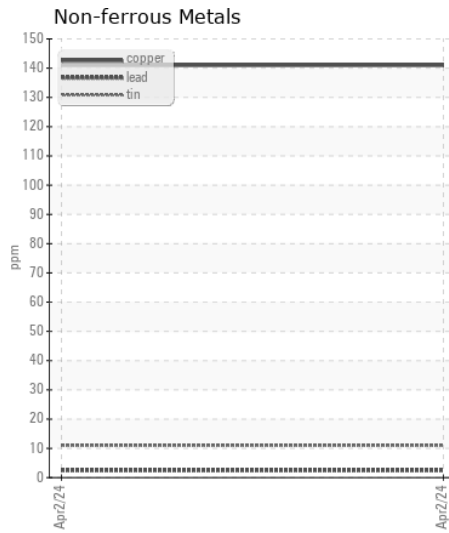
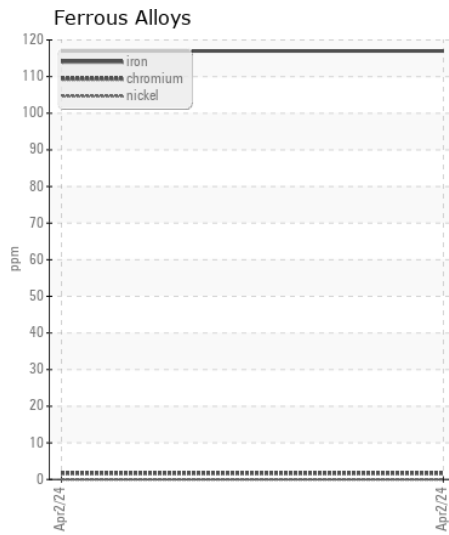
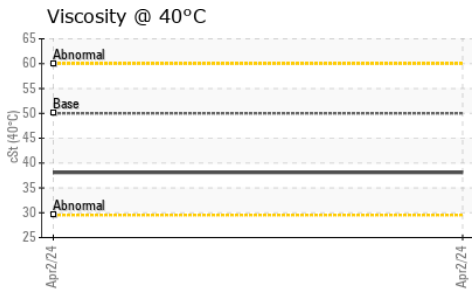
There is no indication of any contamination in the fluid.

|                  |        |             |       |       |     |     |
|------------------|--------|-------------|-------|-------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >75   | 10    | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <1    | --- | --- |
| 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 fluid is acceptable for the time in service.

|             |     |             |      |      |     |     |
|-------------|-----|-------------|------|------|-----|-----|
| Sodium      | ppm | ASTM D5185m |      | 8    | --- | --- |
| Boron       | ppm | ASTM D5185m | 10   | 96   | --- | --- |
| Barium      | ppm | ASTM D5185m | 10   | <1   | --- | --- |
| Molybdenum  | ppm | ASTM D5185m | 10   | 2    | --- | --- |
| Manganese   | ppm | ASTM D5185m |      | 7    | --- | --- |
| Magnesium   | ppm | ASTM D5185m | 100  | 12   | --- | --- |
| Calcium     | ppm | ASTM D5185m | 3500 | 3193 | --- | --- |
| Phosphorus  | ppm | ASTM D5185m | 1150 | 1369 | --- | --- |
| Zinc        | ppm | ASTM D5185m | 1150 | 1492 | --- | --- |
| Sulfur      | ppm | ASTM D5185m | 5000 | 4616 | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   | 50   | 38.1 | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ASC0010140  
**Lab Number** : 06158122  
**Unique Number** : 10993545  
**Test Package** : CONST

**Received** : 23 Apr 2024  
**Tested** : 24 Apr 2024  
**Diagnosed** : 25 Apr 2024 - Don Baldrige

**113 - ASCENDUM MACHINERY INC - GARNER**  
 3561 JONES SAUSAGE ROAD  
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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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