



# VOLVO

## OIL ANALYSIS REPORT

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



Area  
**CBM [396603]**  
Machine Id  
**VOLVO A40G 353347**  
Component  
**Hydraulic System**  
Fluid  
**VOLVO SUPER HYDRAULIC OIL 46 (--- GAL)**

### RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2 |
|----------------|-----|-------------|-----------|--------------------|-------------|----------|
| Sample Number  |     | Client Info |           | <b>VCP393858</b>   | VCP394840   | ---      |
| Sample Date    |     | Client Info |           | <b>02 Mar 2024</b> | 11 Aug 2023 | ---      |
| Machine Age    | hrs | Client Info |           | <b>2000</b>        | 1014        | ---      |
| Oil Age        | hrs | Client Info |           | <b>2000</b>        | 1000        | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | 0           | ---      |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | ---      |
| Filter Changed |     | Client Info |           | <b>Changed</b>     | Changed     | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ABNORMAL    | ---      |

### WEAR

All component wear rates are normal.

|              |        |               |      |              |      |     |
|--------------|--------|---------------|------|--------------|------|-----|
| Iron         | ppm    | ASTM D5185(m) | >50  | <b>6</b>     | 4    | --- |
| Chromium     | ppm    | ASTM D5185(m) | >20  | <b>&lt;1</b> | <1   | --- |
| Nickel       | ppm    | ASTM D5185(m) | >10  | <b>&lt;1</b> | 0    | --- |
| Titanium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Silver       | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| Aluminum     | ppm    | ASTM D5185(m) | >20  | <b>1</b>     | <1   | --- |
| Lead         | ppm    | ASTM D5185(m) | >20  | <b>&lt;1</b> | <1   | --- |
| Copper       | ppm    | ASTM D5185(m) | >150 | <b>2</b>     | 1    | --- |
| Tin          | ppm    | ASTM D5185(m) | >20  | <b>0</b>     | 0    | --- |
| Vanadium     | ppm    | ASTM D5185(m) |      | <b>0</b>     | 0    | --- |
| White Metal  | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | --- |
| Yellow Metal | scalar | Visual*       | NONE | <b>NONE</b>  | NONE | --- |

### CONTAMINATION

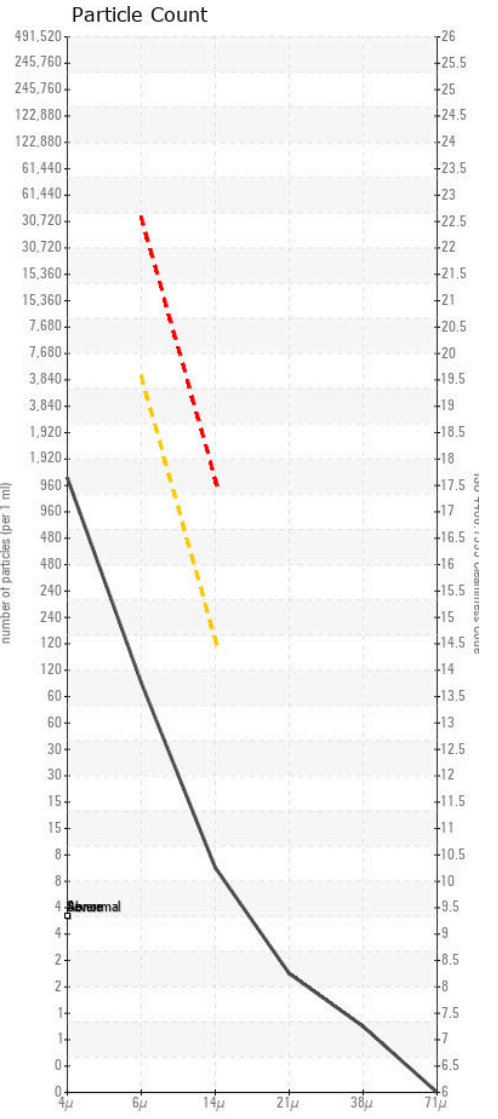
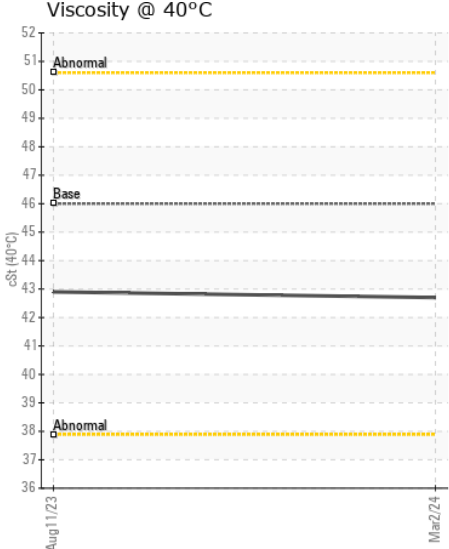
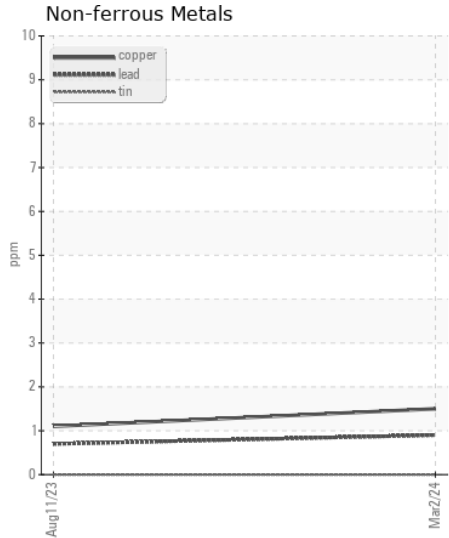
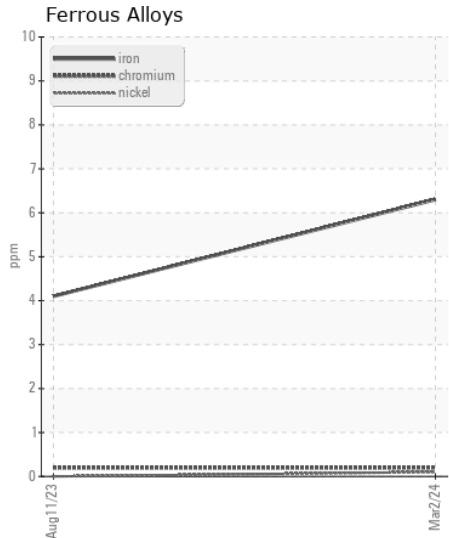
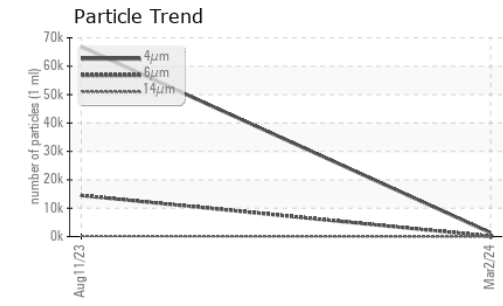
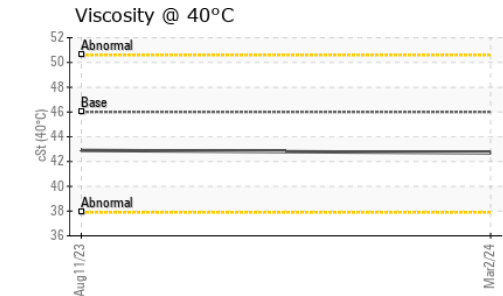
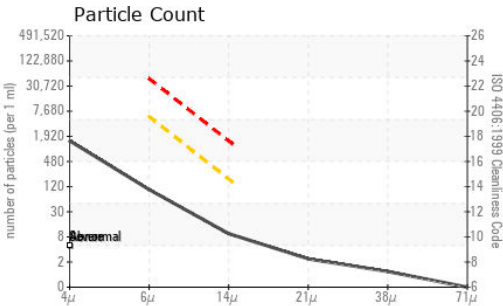
The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable.

|                  |        |               |          |                 |            |     |
|------------------|--------|---------------|----------|-----------------|------------|-----|
| Silicon          | ppm    | ASTM D5185(m) | >20      | <b>6</b>        | 5          | --- |
| Potassium        | ppm    | ASTM D5185(m) | >20      | <b>&lt;1</b>    | <1         | --- |
| Water            |        | WC Method     | >0.1     | <b>NEG</b>      | NEG        | --- |
| Particles >4µm   |        | ASTM D7647    |          | <b>1315</b>     | 66808      | --- |
| Particles >6µm   |        | ASTM D7647    | >5000    | <b>90</b>       | ▲ 14460    | --- |
| Particles >14µm  |        | ASTM D7647    | >160     | <b>8</b>        | ● 203      | --- |
| Particles >21µm  |        | ASTM D7647    | >40      | <b>2</b>        | 45         | --- |
| Particles >38µm  |        | ASTM D7647    | >10      | <b>1</b>        | 3          | --- |
| Particles >71µm  |        | ASTM D7647    | >3       | <b>0</b>        | 1          | --- |
| Oil Cleanliness  |        | ISO 4406 (c)  | >-/19/14 | <b>18/14/10</b> | ▲ 23/21/15 | --- |
| Silt             | scalar | Visual*       | NONE     | <b>NONE</b>     | VLITE      | --- |
| Debris           | scalar | Visual*       | NONE     | <b>NONE</b>     | VLITE      | --- |
| 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*       | >0.1     | <b>NEG</b>      | NEG        | --- |

### FLUID CONDITION

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

|             |     |               |      |              |      |     |
|-------------|-----|---------------|------|--------------|------|-----|
| Sodium      | ppm | ASTM D5185(m) |      | <b>&lt;1</b> | <1   | --- |
| Boron       | ppm | ASTM D5185(m) | 14   | <b>2</b>     | <1   | --- |
| Barium      | ppm | ASTM D5185(m) | 0.0  | <b>0</b>     | 0    | --- |
| Molybdenum  | ppm | ASTM D5185(m) | 0.0  | <b>0</b>     | 0    | --- |
| Manganese   | ppm | ASTM D5185(m) | 0.0  | <b>0</b>     | 0    | --- |
| Magnesium   | ppm | ASTM D5185(m) | 2.6  | <b>2</b>     | 1    | --- |
| Calcium     | ppm | ASTM D5185(m) | 49   | <b>61</b>    | 59   | --- |
| Phosphorus  | ppm | ASTM D5185(m) | 354  | <b>330</b>   | 355  | --- |
| Zinc        | ppm | ASTM D5185(m) | 419  | <b>418</b>   | 435  | --- |
| Sulfur      | ppm | ASTM D5185(m) | 3719 | <b>1518</b>  | 1210 | --- |
| Visc @ 40°C | cSt | ASTM D7279(m) | 46   | <b>42.7</b>  | 42.9 | --- |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP393858 **Received** : 06 Mar 2024  
**Lab Number** : 02620267 **Tested** : 07 Mar 2024  
**Unique Number** : 5737377 **Diagnosed** : 07 Mar 2024 - Wes Davis  
**Test Package** : MOB 1 ( Additional Tests: PrtCount )

To discuss this sample report, contact Customer Service at 1-800-268-2131.  
 Test denoted (\*) outside scope of accreditation, (m) method modified, (e) tested at external lab.  
 Validity of results and interpretation are based on the sample and information as supplied.

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