



# VOLVO

## OIL ANALYSIS REPORT

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

Machine Id  
**NATIONAL 1300A 303135**

Component  
**Hydraulic System**

Fluid  
**MOBIL MOBILFLUID 424 (--- GAL)**

### RECOMMENDATION

We advise that you check for the source of water entry. Check seals and/or filters for points of contaminant entry. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. We recommend that you drain the oil from the component if this has not already been done. We recommend you service the filters on this component. We recommend an early resample to monitor this condition.

### WEAR

All component wear rates are normal.

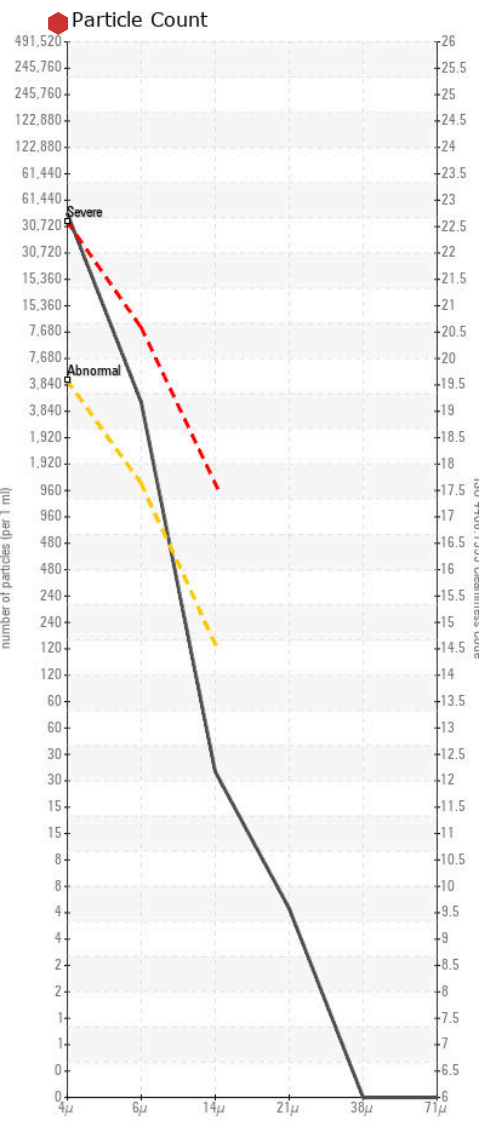
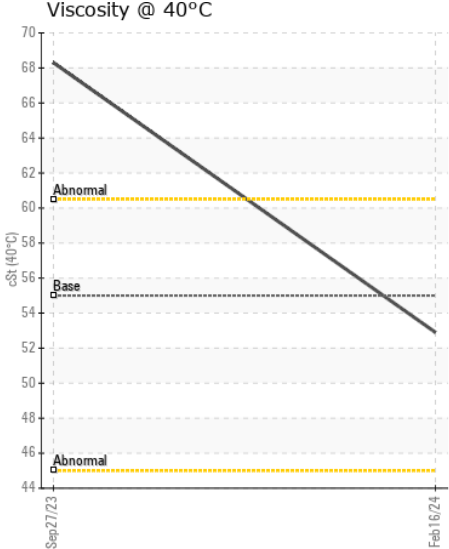
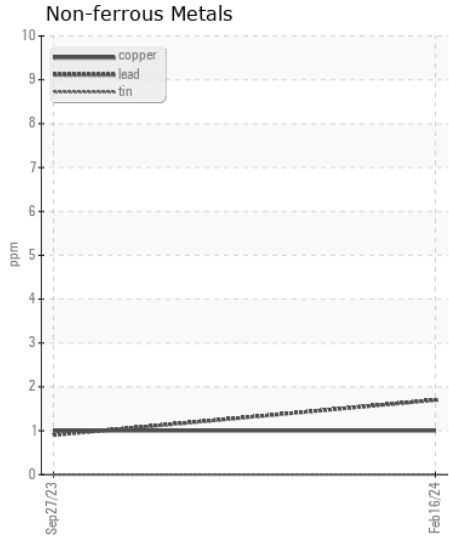
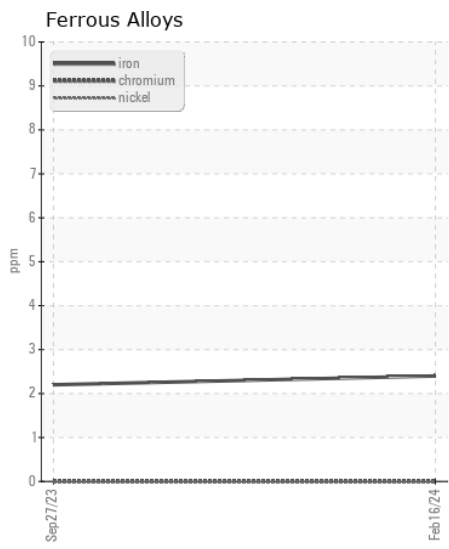
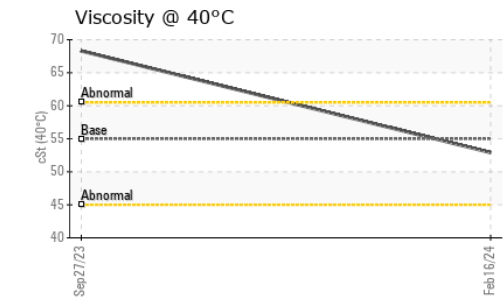
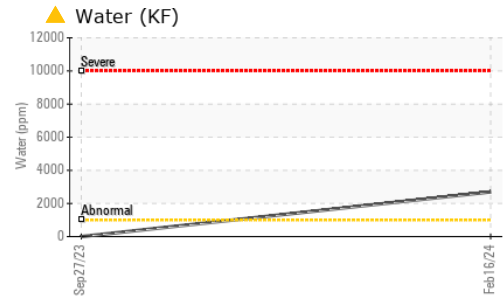
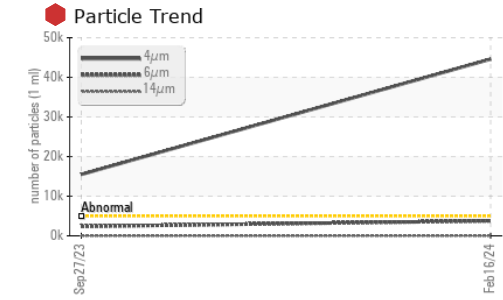
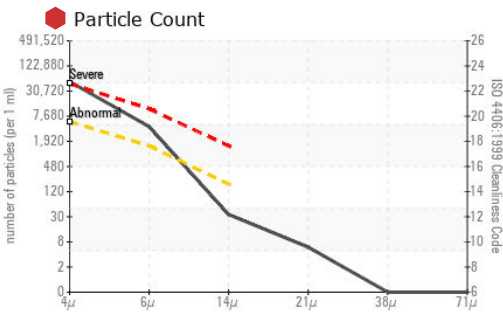
### CONTAMINATION

There is a high amount of silt (particulates < 14 microns in size) present in the oil. There is a moderate concentration of water present in the oil.

### FLUID CONDITION

The oil is no longer serviceable due to the presence of contaminants.

| Test             | UOM    | Method        | Limit/Abn | Current            | History1    | History2 |
|------------------|--------|---------------|-----------|--------------------|-------------|----------|
| Sample Number    |        | Client Info   |           | <b>VCP</b>         | VCP394735   | ---      |
| Sample Date      |        | Client Info   |           | <b>16 Feb 2024</b> | 27 Sep 2023 | ---      |
| Machine Age      | hrs    | Client Info   |           | <b>17</b>          | 10          | ---      |
| Oil Age          | hrs    | Client Info   |           | <b>17</b>          | 10          | ---      |
| Filter Age       | hrs    | Client Info   |           | <b>0</b>           | 0           | ---      |
| Oil Changed      |        | Client Info   |           | <b>Not Changd</b>  | Not Changd  | ---      |
| Filter Changed   |        | Client Info   |           | <b>N/A</b>         | Not Changd  | ---      |
| Sample Status    |        |               |           | <b>SEVERE</b>      | ABNORMAL    | ---      |
| Iron             | ppm    | ASTM D5185(m) | >20       | <b>2</b>           | 2           | ---      |
| Chromium         | ppm    | ASTM D5185(m) | >10       | <b>0</b>           | 0           | ---      |
| Nickel           | ppm    | ASTM D5185(m) | >10       | <b>0</b>           | 0           | ---      |
| Titanium         | ppm    | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| Silver           | ppm    | ASTM D5185(m) |           | <b>0</b>           | <1          | ---      |
| Aluminum         | ppm    | ASTM D5185(m) | >10       | <b>2</b>           | 1           | ---      |
| Lead             | ppm    | ASTM D5185(m) | >10       | <b>2</b>           | <1          | ---      |
| Copper           | ppm    | ASTM D5185(m) | >75       | <b>1</b>           | 1           | ---      |
| Tin              | ppm    | ASTM D5185(m) | >10       | <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        | ---      |
| Silicon          | ppm    | ASTM D5185(m) | >20       | <b>12</b>          | 11          | ---      |
| Potassium        | ppm    | ASTM D5185(m) | >20       | <b>4</b>           | 2           | ---      |
| Water            | %      | ASTM D6304*   | >0.1      | <b>▲ 0.269</b>     | ---         | ---      |
| ppm Water        | ppm    | ASTM D6304*   | >1000     | <b>▲ 2699</b>      | ---         | ---      |
| Particles >4µm   |        | ASTM D7647    | >5000     | <b>◆ 44604</b>     | ▲ 15496     | ---      |
| Particles >6µm   |        | ASTM D7647    | >1300     | <b>▲ 3772</b>      | ▲ 2376      | ---      |
| Particles >14µm  |        | ASTM D7647    | >160      | <b>30</b>          | 33          | ---      |
| Particles >21µm  |        | ASTM D7647    | >40       | <b>5</b>           | 6           | ---      |
| Particles >38µm  |        | ASTM D7647    | >10       | <b>0</b>           | 1           | ---      |
| Particles >71µm  |        | ASTM D7647    | >3        | <b>0</b>           | 1           | ---      |
| Oil Cleanliness  |        | ISO 4406 (c)  | >19/17/14 | <b>◆ 23/19/12</b>  | ▲ 21/18/12  | ---      |
| 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>▲ HAZY</b>      | NORML       | ---      |
| Odor             | scalar | Visual*       | NORML     | <b>NORML</b>       | NORML       | ---      |
| Emulsified Water | scalar | Visual*       | >0.1      | <b>▲ .2%</b>       | NEG         | ---      |
| Sodium           | ppm    | ASTM D5185(m) |           | <b>3</b>           | 1           | ---      |
| Boron            | ppm    | ASTM D5185(m) |           | <b>96</b>          | 97          | ---      |
| Barium           | ppm    | ASTM D5185(m) |           | <b>&lt;1</b>       | <1          | ---      |
| Molybdenum       | ppm    | ASTM D5185(m) |           | <b>1</b>           | 2           | ---      |
| Manganese        | ppm    | ASTM D5185(m) |           | <b>0</b>           | 0           | ---      |
| Magnesium        | ppm    | ASTM D5185(m) |           | <b>24</b>          | 24          | ---      |
| Calcium          | ppm    | ASTM D5185(m) |           | <b>3243</b>        | 3305        | ---      |
| Phosphorus       | ppm    | ASTM D5185(m) |           | <b>1084</b>        | 1115        | ---      |
| Zinc             | ppm    | ASTM D5185(m) |           | <b>1329</b>        | 1399        | ---      |
| Sulfur           | ppm    | ASTM D5185(m) |           | <b>6739</b>        | 6606        | ---      |
| Visc @ 40°C      | cSt    | ASTM D7279(m) | 55        | <b>52.9</b>        | 68.3        | ---      |



**Laboratory** : WearCheck - C8-1175 Appleby Line, Burlington, ON L7L 5H9  
**Sample No.** : VCP **Received** : 21 Feb 2024  
**Lab Number** : 02617123 **Tested** : 23 Feb 2024  
**Unique Number** : 5734233 **Diagnosed** : 23 Feb 2024 - Kevin Marson  
**Test Package** : MOB 1 ( Additional Tests: KF, PrtCount )

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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.