



**McCLUNG-LOGAN**  
EQUIPMENT COMPANY, INC.

OIL ANALYSIS REPORT

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



Area  
**[W02008179]**  
Machine Id  
**VOLVO A25G 752867**  
Component  
**Rear Differential**  
Fluid  
**VOLVO SUPER GEAR OIL 75W-80-GO102 (10 GAL)**

**RECOMMENDATION**

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. ( Customer Sample Comment: W02008179 )

| Test           | UOM | Method      | Limit/Abn | Current            | History1 | History2 |
|----------------|-----|-------------|-----------|--------------------|----------|----------|
| Sample Number  |     | Client Info |           | <b>ML0001139</b>   | ---      | ---      |
| Sample Date    |     | Client Info |           | <b>02 May 2024</b> | ---      | ---      |
| Machine Age    | hrs | Client Info |           | <b>1084</b>        | ---      | ---      |
| Oil Age        | hrs | Client Info |           | <b>1084</b>        | ---      | ---      |
| Filter Age     | hrs | Client Info |           | <b>0</b>           | ---      | ---      |
| Oil Changed    |     | Client Info |           | <b>Changed</b>     | ---      | ---      |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | ---      | ---      |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ---      | ---      |

**WEAR**

All component wear rates are normal.

|              |        |             |      |              |     |     |
|--------------|--------|-------------|------|--------------|-----|-----|
| Iron         | ppm    | ASTM D5185m | >900 | <b>254</b>   | --- | --- |
| Chromium     | ppm    | ASTM D5185m | >20  | <b>5</b>     | --- | --- |
| Nickel       | ppm    | ASTM D5185m | >10  | <b>4</b>     | --- | --- |
| Titanium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| Silver       | ppm    | ASTM D5185m |      | <b>0</b>     | --- | --- |
| Aluminum     | ppm    | ASTM D5185m | >30  | <b>2</b>     | --- | --- |
| Lead         | ppm    | ASTM D5185m | >50  | <b>0</b>     | --- | --- |
| Copper       | ppm    | ASTM D5185m | >150 | <b>21</b>    | --- | --- |
| Tin          | ppm    | ASTM D5185m | >20  | <b>1</b>     | --- | --- |
| Vanadium     | ppm    | ASTM D5185m |      | <b>&lt;1</b> | --- | --- |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | --- | --- |

**CONTAMINATION**

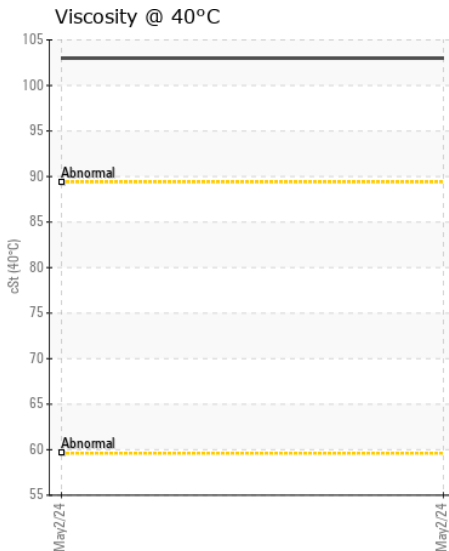
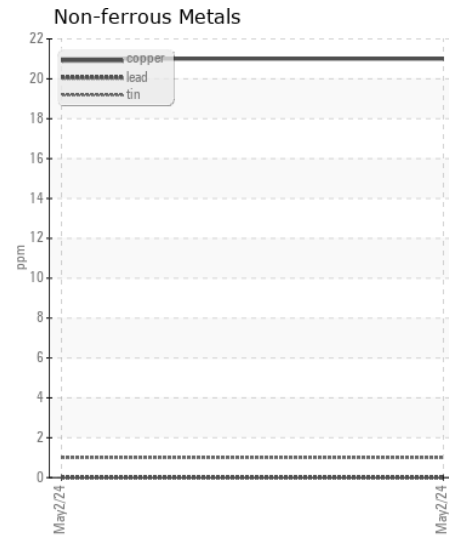
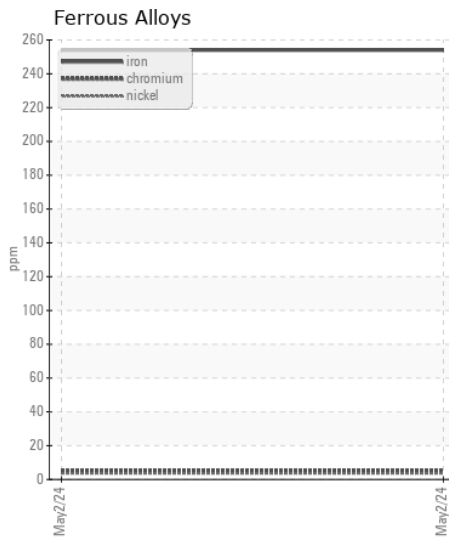
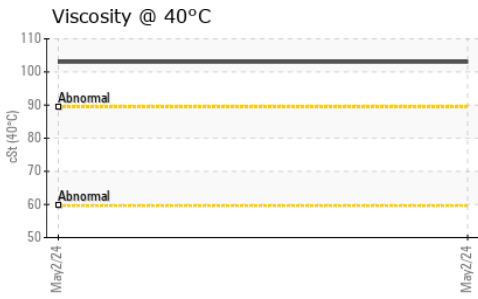
There is no indication of any contamination in the oil.

|                  |        |             |       |              |     |     |
|------------------|--------|-------------|-------|--------------|-----|-----|
| Silicon          | ppm    | ASTM D5185m | >50   | <b>6</b>     | --- | --- |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>5</b>     | --- | --- |
| Water            |        | WC Method   | >0.2  | <b>NEG</b>   | --- | --- |
| Silt             | scalar | *Visual     | NONE  | <b>MODER</b> | --- | --- |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Sand/Dirt        | scalar | *Visual     | NONE  | <b>NONE</b>  | --- | --- |
| Appearance       | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Odor             | scalar | *Visual     | NORML | <b>NORML</b> | --- | --- |
| Emulsified Water | scalar | *Visual     | >0.2  | <b>NEG</b>   | --- | --- |

**FLUID CONDITION**

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

|             |     |             |  |              |     |     |
|-------------|-----|-------------|--|--------------|-----|-----|
| Sodium      | ppm | ASTM D5185m |  | <b>&lt;1</b> | --- | --- |
| Boron       | ppm | ASTM D5185m |  | <b>363</b>   | --- | --- |
| Barium      | ppm | ASTM D5185m |  | <b>5</b>     | --- | --- |
| Molybdenum  | ppm | ASTM D5185m |  | <b>8</b>     | --- | --- |
| Manganese   | ppm | ASTM D5185m |  | <b>15</b>    | --- | --- |
| Magnesium   | ppm | ASTM D5185m |  | <b>5</b>     | --- | --- |
| Calcium     | ppm | ASTM D5185m |  | <b>166</b>   | --- | --- |
| Phosphorus  | ppm | ASTM D5185m |  | <b>1492</b>  | --- | --- |
| Zinc        | ppm | ASTM D5185m |  | <b>82</b>    | --- | --- |
| Sulfur      | ppm | ASTM D5185m |  | <b>25456</b> | --- | --- |
| Visc @ 40°C | cSt | ASTM D445   |  | <b>103</b>   | --- | --- |



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : ML0001139  
**Lab Number** : 06174379  
**Unique Number** : 11020432  
**Test Package** : CONST

**Received** : 09 May 2024  
**Tested** : 10 May 2024  
**Diagnosed** : 13 May 2024 - Don Baldrige

**MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS**  
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 US 20110

Contact: DARRELL ANDES  
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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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