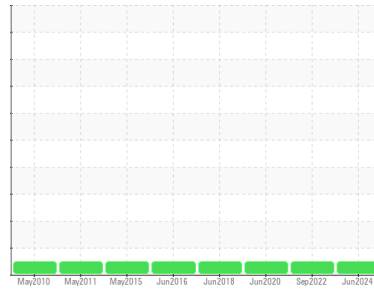




# OIL ANALYSIS REPORT

## Sample Rating Trend



**NORMAL**



Machine Id  
**VOLVO 12511**  
 Component  
**Rear Differential**  
 Fluid  
**SHELL SYN 75W90 (20 QTS)**

### DIAGNOSIS

#### Recommendation

Resample at the next service interval to monitor.

#### Wear

All component wear rates are normal.

#### Contamination

There is no indication of any contamination in the oil.

#### Fluid Condition

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

| SAMPLE INFORMATION |             | method      | limit/base | current            | history1    | history2    |
|--------------------|-------------|-------------|------------|--------------------|-------------|-------------|
| Sample Number      | Client Info |             |            | <b>WC0888316</b>   | WC0692765   | WC0447802   |
| Sample Date        | Client Info |             |            | <b>03 Jun 2024</b> | 20 Sep 2022 | 02 Jun 2020 |
| Machine Age        | mls         | Client Info |            | <b>827950</b>      | 827830      | 811596      |
| Oil Age            | mls         | Client Info |            | <b>68730</b>       | 68610       | 52376       |
| Oil Changed        | Client Info |             |            | <b>Not Chngd</b>   | Not Chngd   | Changed     |
| Sample Status      |             |             |            | <b>NORMAL</b>      | NORMAL      | NORMAL      |

| CONTAMINATION |           | method | limit/base | current    | history1 | history2 |
|---------------|-----------|--------|------------|------------|----------|----------|
| Water         | WC Method |        | >.2        | <b>NEG</b> | NEG      | NEG      |

| WEAR METALS |     | method      | limit/base | current      | history1 | history2 |
|-------------|-----|-------------|------------|--------------|----------|----------|
| Iron        | ppm | ASTM D5185m | >500       | <b>47</b>    | 49       | 42       |
| Chromium    | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | <1       |
| Nickel      | ppm | ASTM D5185m | >10        | <b>3</b>     | 0        | 0        |
| Titanium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Silver      | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | <1       |
| Aluminum    | ppm | ASTM D5185m | >25        | <b>6</b>     | 0        | <1       |
| Lead        | ppm | ASTM D5185m | >25        | <b>&lt;1</b> | 0        | 0        |
| Copper      | ppm | ASTM D5185m | >100       | <b>37</b>    | <1       | <1       |
| Tin         | ppm | ASTM D5185m | >10        | <b>&lt;1</b> | <1       | 0        |
| Antimony    | ppm | ASTM D5185m | >5         | <b>---</b>   | ---      | 0        |
| Vanadium    | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | 0        |
| Cadmium     | ppm | ASTM D5185m |            | <b>&lt;1</b> | 0        | <1       |

| ADDITIVES  |     | method      | limit/base | current     | history1 | history2 |
|------------|-----|-------------|------------|-------------|----------|----------|
| Boron      | ppm | ASTM D5185m |            | <b>244</b>  | 260      | 249      |
| Barium     | ppm | ASTM D5185m |            | <b>117</b>  | 0        | 0        |
| Molybdenum | ppm | ASTM D5185m |            | <b>6</b>    | <1       | 0        |
| Manganese  | ppm | ASTM D5185m |            | <b>8</b>    | <1       | <1       |
| Magnesium  | ppm | ASTM D5185m |            | <b>9</b>    | 0        | 0        |
| Calcium    | ppm | ASTM D5185m |            | <b>108</b>  | 0        | 2        |
| Phosphorus | ppm | ASTM D5185m |            | <b>1172</b> | 1314     | 1350     |
| Zinc       | ppm | ASTM D5185m |            | <b>61</b>   | 0        | 0        |
| Sulfur     | ppm | ASTM D5185m |            | <b>840</b>  | 25056    | 21661    |

| CONTAMINANTS |     | method      | limit/base | current  | history1 | history2 |
|--------------|-----|-------------|------------|----------|----------|----------|
| Silicon      | ppm | ASTM D5185m | >75        | <b>5</b> | 4        | 4        |
| Sodium       | ppm | ASTM D5185m |            | <b>0</b> | 1        | 2        |
| Potassium    | ppm | ASTM D5185m | >20        | <b>5</b> | 0        | 0        |

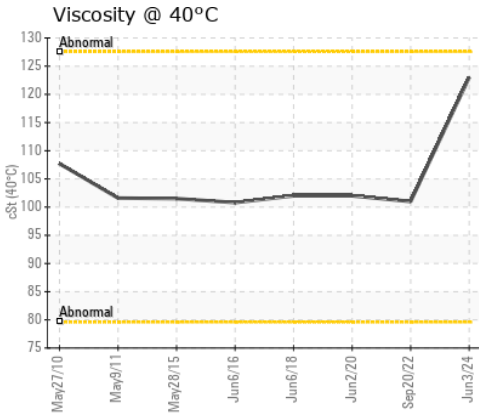
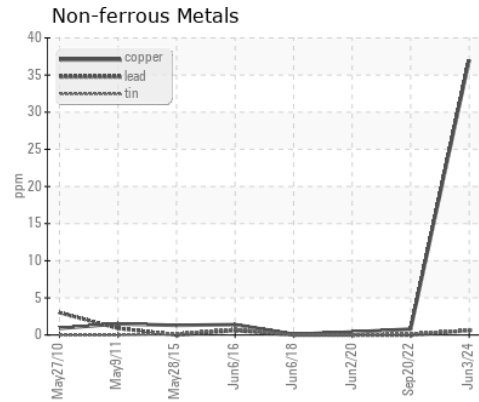
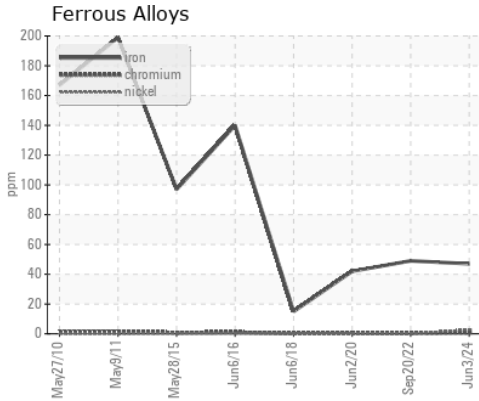
| VISUAL           |        | method  | limit/base | current      | history1 | history2 |
|------------------|--------|---------|------------|--------------|----------|----------|
| White Metal      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Yellow Metal     | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Precipitate      | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Silt             | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Debris           | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | LIGHT    |
| Sand/Dirt        | scalar | *Visual | NONE       | <b>NONE</b>  | NONE     | NONE     |
| Appearance       | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | NORML    |
| Odor             | scalar | *Visual | NORML      | <b>NORML</b> | NORML    | NORML    |
| Emulsified Water | scalar | *Visual | >.2        | <b>NEG</b>   | NEG      | NEG      |
| Free Water       | scalar | *Visual |            | <b>NEG</b>   | NEG      | NEG      |



# OIL ANALYSIS REPORT

| SAMPLE IMAGES | method | limit/base | current  | history1 | history2 |
|---------------|--------|------------|----------|----------|----------|
| Color         |        |            | no image | no image | no image |
| Bottom        |        |            | no image | no image | no image |

## GRAPHS



Certificate L2367

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)

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0888316  
**Lab Number** : 06217452  
**Unique Number** : 11090316  
**Test Package** : FLEET  
**Received** : 21 Jun 2024  
**Tested** : 24 Jun 2024  
**Diagnosed** : 24 Jun 2024 - Wes Davis

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