



# OIL ANALYSIS REPORT

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



Machine Id  
**VOLVO 12708**  
Component  
**Transmission (Manual)**  
Fluid  
**GEAR OIL SAE 75W80 (--- QTS)**

## RECOMMENDATION

Resample at the next service interval to monitor.

| Test           | UOM | Method      | Limit/Abn | Current            | History1    | History2    |
|----------------|-----|-------------|-----------|--------------------|-------------|-------------|
| Sample Number  |     | Client Info |           | <b>WC0888358</b>   | WCMFA75945  | WCMFB02202  |
| Sample Date    |     | Client Info |           | <b>12 Jun 2024</b> | 21 Jan 2016 | 21 Apr 2015 |
| Machine Age    | mls | Client Info |           | <b>597200</b>      | 112340      | 58570       |
| Oil Age        | mls | Client Info |           | <b>82370</b>       | 112340      | 58570       |
| Filter Age     | mls | Client Info |           | <b>0</b>           | 0           | 0           |
| Oil Changed    |     | Client Info |           | <b>Not Changd</b>  | Not Changd  | Not Changd  |
| Filter Changed |     | Client Info |           | <b>N/A</b>         | N/A         | N/A         |
| Sample Status  |     |             |           | <b>NORMAL</b>      | ABNORMAL    | ABNORMAL    |

## WEAR

All component wear rates are normal.

|              |        |             |      |              |       |       |
|--------------|--------|-------------|------|--------------|-------|-------|
| Iron         | ppm    | ASTM D5185m | >500 | <b>45</b>    | 229   | 129   |
| Chromium     | ppm    | ASTM D5185m | >7   | <b>&lt;1</b> | 4     | 2     |
| Nickel       | ppm    | ASTM D5185m | >5   | <b>1</b>     | 8     | 7     |
| Titanium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| Silver       | ppm    | ASTM D5185m | >7   | <b>0</b>     | 0     | <1    |
| Aluminum     | ppm    | ASTM D5185m | >15  | <b>&lt;1</b> | 4     | 3     |
| Lead         | ppm    | ASTM D5185m | >350 | <b>0</b>     | 1     | 0     |
| Copper       | ppm    | ASTM D5185m | >300 | <b>14</b>    | 26    | 17    |
| Tin          | ppm    | ASTM D5185m | >5   | <b>0</b>     | <1    | 0     |
| Vanadium     | ppm    | ASTM D5185m |      | <b>0</b>     | 0     | 0     |
| White Metal  | scalar | *Visual     | NONE | <b>NONE</b>  | LIGHT | LIGHT |
| Yellow Metal | scalar | *Visual     | NONE | <b>NONE</b>  | NONE  | NONE  |

## CONTAMINATION

There is no indication of any contamination in the oil.

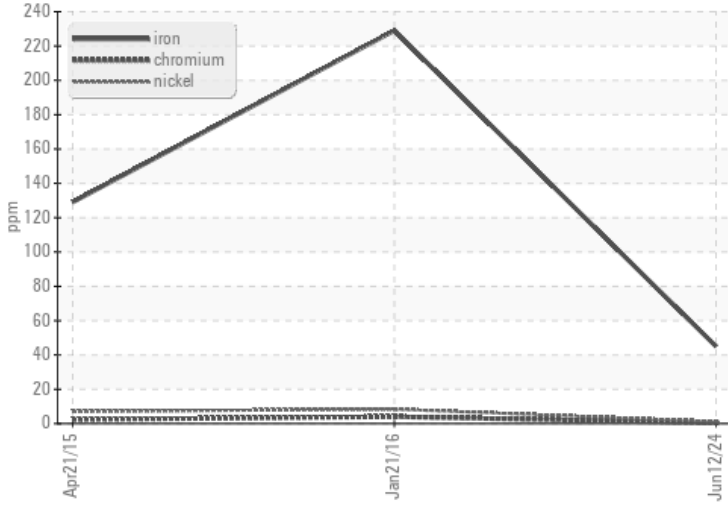
|                  |        |             |       |              |       |       |
|------------------|--------|-------------|-------|--------------|-------|-------|
| Silicon          | ppm    | ASTM D5185m | >25   | <b>19</b>    | ▲ 96  | ▲ 74  |
| Potassium        | ppm    | ASTM D5185m | >20   | <b>2</b>     | 2     | 2     |
| Water            |        | WC Method   | >0.1  | <b>NEG</b>   | NEG   | NEG   |
| Silt             | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| Debris           | scalar | *Visual     | NONE  | <b>NONE</b>  | NONE  | NONE  |
| 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     | >0.1  | <b>NEG</b>   | NEG   | NEG   |

## FLUID CONDITION

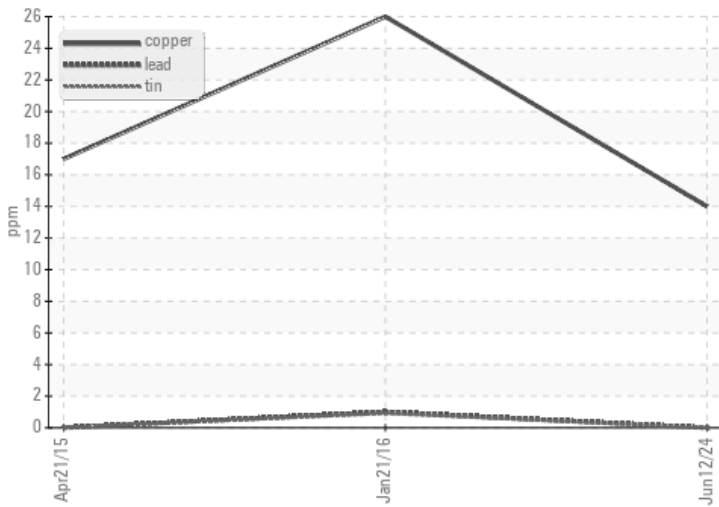
The condition of the oil is acceptable for the time in service.

|            |     |             |       |             |      |      |
|------------|-----|-------------|-------|-------------|------|------|
| Sodium     | ppm | ASTM D5185m |       | <b>2</b>    | 2    | 2    |
| Boron      | ppm | ASTM D5185m | 400   | <b>3</b>    | 2    | 2    |
| Barium     | ppm | ASTM D5185m | 200   | <b>0</b>    | 0    | 0    |
| Molybdenum | ppm | ASTM D5185m | 12    | <b>0</b>    | <1   | 2    |
| Manganese  | ppm | ASTM D5185m |       | <b>4</b>    | 30   | 25   |
| Magnesium  | ppm | ASTM D5185m | 12    | <b>2</b>    | 3    | 2    |
| Calcium    | ppm | ASTM D5185m | 150   | <b>754</b>  | 953  | 873  |
| Phosphorus | ppm | ASTM D5185m | 1650  | <b>608</b>  | 720  | 626  |
| Zinc       | ppm | ASTM D5185m | 125   | <b>6</b>    | 19   | 6    |
| Sulfur     | ppm | ASTM D5185m | 22500 | <b>3780</b> | 2832 | 3362 |

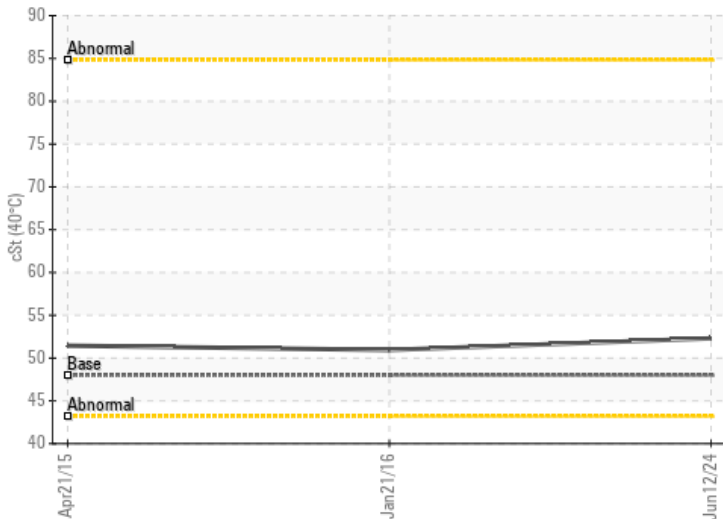
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



Certificate L2367

**Laboratory** : WearCheck USA - 501 Madison Ave., Cary, NC 27513  
**Sample No.** : WC0888358  
**Lab Number** : 06212694  
**Unique Number** : 11085558  
**Test Package** : FLEET

**Received** : 17 Jun 2024  
**Tested** : 18 Jun 2024  
**Diagnosed** : 19 Jun 2024 - Angela Borella

**NOKOMIS - PGT INDUSTRIES INC**  
 1044 ENDEAVOR CT  
 NOKOMIS, FL  
 US 34275

Contact: BILL SCHULER  
 wschuler@pgtindustries.com

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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