



# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - COOLANT



**Sample No:** VCP0008490

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP0008490  | --- | --- | --- |
| Sample Date   | 27 Jun 2024 | --- | --- | --- |
| Machine Hours | 8083        | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### ALTA EQUIPMENT COMPANY

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### COOLANT CONDITION

|                    |            |        |     |     |     |
|--------------------|------------|--------|-----|-----|-----|
| pH                 | Scale 0-14 | ■ 8.41 | --- | --- | --- |
| Reserve Alkalinity | Scale 0-20 | ---    | --- | --- | --- |
| Nitrites           | ppm        | ■ NT   | --- | --- | --- |
| Percentage Glycol  | %          | ■ 48.5 | --- | --- | --- |
| Freezing Point     | °C         | ■ -31  | --- | --- | --- |

### Diagnosis

No corrective action is recommended at this time. The fluid is suitable for further service. There is no indication of any contamination in the coolant. Carboxylate test failed. The glycol level is acceptable. The pH level of this fluid is within the acceptable limits.



### CONTAMINATION

|                    |        |     |     |     |
|--------------------|--------|-----|-----|-----|
| Coolant Appearance | normal | --- | --- | --- |
| Coolant Color      | Yllow  | --- | --- | --- |

**Depot:** VOLVO0092  
**Unique No:** 11111535  
**Signed:** Jonathan Hester  
**Report Date:** 08 Jul 2024

Submitted By: TECHNICIAN ACCOUNT



# CONSTRUCTION EQUIPMENT

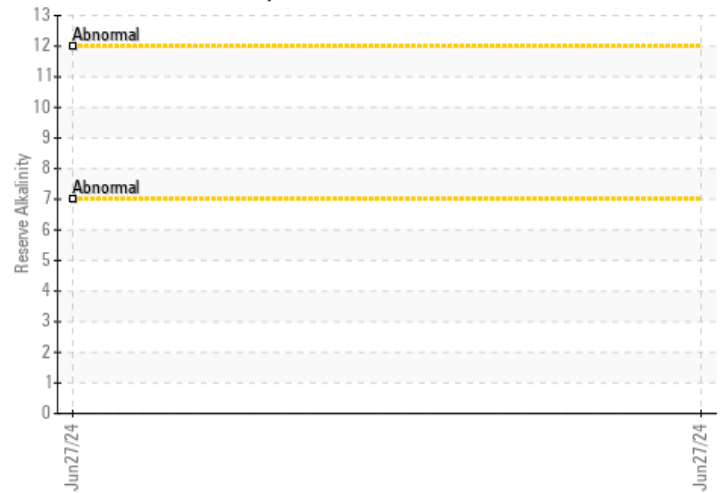


## VOLVO GRAPHS

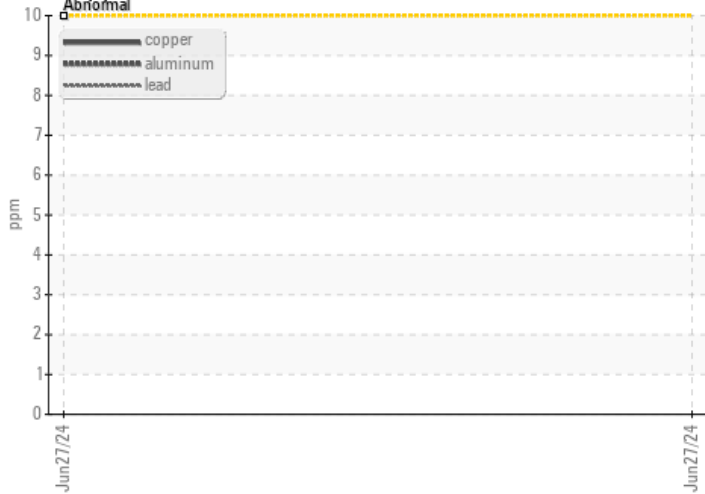
### Iron/Tin/Silver



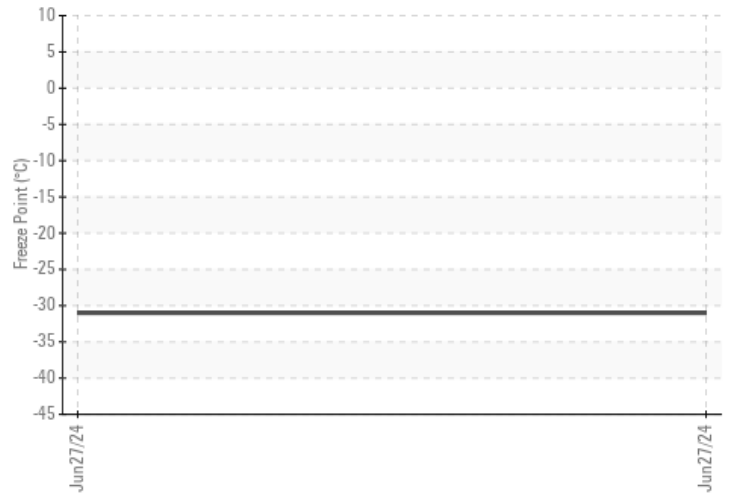
### Reserve Alkalinity



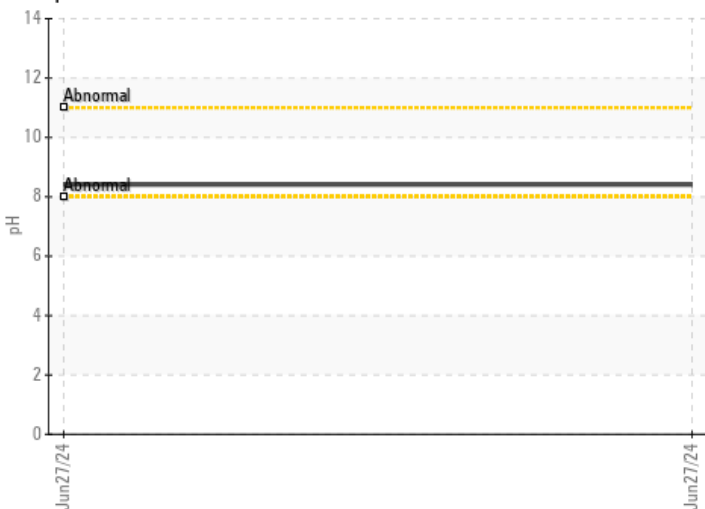
### Copper/Aluminum/Lead



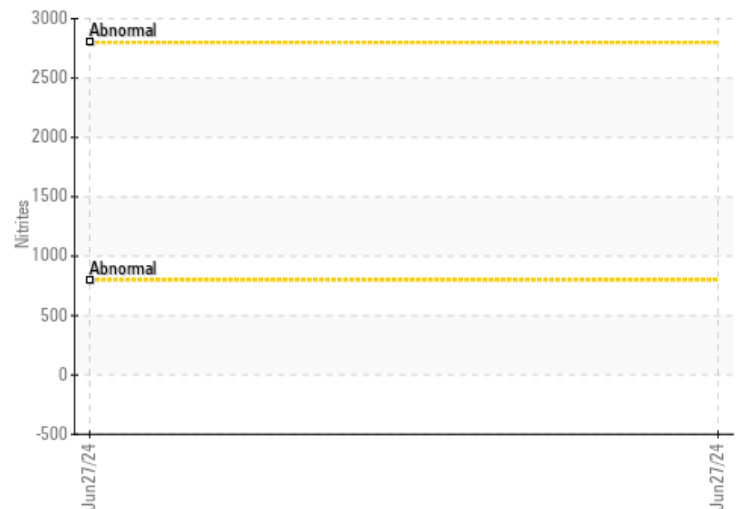
### Freeze Point



### pH



### Nitrites





# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - DIESEL ENGINE



**Sample No:** VCP0008488  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:**



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP0008488</b>  | VCP300974   | --- | --- |
| Sample Date   | <b>27 Jun 2024</b> | 29 Dec 2020 | --- | --- |
| Machine Hours | <b>8083</b>        | 0           | --- | --- |
| Oil Hours     | <b>8083</b>        | 0           | --- | --- |
| Oil Changed   | <b>N/A</b>         | Not Changd  | --- | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | --- | --- |

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### OIL CONDITION

|                  |          |             |      |     |     |
|------------------|----------|-------------|------|-----|-----|
| Visc @ 100°C     | cSt      | <b>13.1</b> | 13.0 | --- | --- |
| Base Number (BN) | mg KOH/g | <b>10.3</b> | ---  | --- | --- |
| Oxidation (PA)   | %        | <b>73</b>   | 60   | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



### CONTAMINATION

|                |     |                |      |     |     |
|----------------|-----|----------------|------|-----|-----|
| Water          | %   | <b>NEG</b>     | NEG  | --- | --- |
| Soot %         | %   | <b>0.1</b>     | 0.3  | --- | --- |
| Nitration (PA) | %   | <b>42</b>      | 68   | --- | --- |
| Sulfation (PA) | %   | <b>59</b>      | 55   | --- | --- |
| Glycol         | %   | <b>NEG</b>     | NEG  | --- | --- |
| Fuel           | %   | <b>&lt;1.0</b> | <1.0 | --- | --- |
| Silicon        | ppm | <b>7</b>       | 2    | --- | --- |
| Sodium         | ppm | <b>2</b>       | 2    | --- | --- |
| Potassium      | ppm | <b>2</b>       | 0    | --- | --- |



### WEAR METALS

|            |     |              |    |     |     |
|------------|-----|--------------|----|-----|-----|
| Iron       | ppm | <b>3</b>     | 7  | --- | --- |
| Copper     | ppm | <b>3</b>     | 45 | --- | --- |
| Lead       | ppm | <b>0</b>     | 1  | --- | --- |
| Tin        | ppm | <b>0</b>     | 1  | --- | --- |
| Aluminum   | ppm | <b>2</b>     | <1 | --- | --- |
| Chromium   | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Molybdenum | ppm | <b>38</b>    | 58 | --- | --- |
| Nickel     | ppm | <b>&lt;1</b> | <1 | --- | --- |
| Titanium   | ppm | <b>0</b>     | <1 | --- | --- |
| Silver     | ppm | <b>0</b>     | <1 | --- | --- |
| Manganese  | ppm | <b>0</b>     | <1 | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0  | --- | --- |



### ADDITIVES

|            |     |             |      |     |     |
|------------|-----|-------------|------|-----|-----|
| Calcium    | ppm | <b>1471</b> | 1061 | --- | --- |
| Magnesium  | ppm | <b>510</b>  | 920  | --- | --- |
| Zinc       | ppm | <b>1088</b> | 1238 | --- | --- |
| Phosphorus | ppm | <b>923</b>  | 1012 | --- | --- |
| Barium     | ppm | <b>0</b>    | 0    | --- | --- |
| Boron      | ppm | <b>60</b>   | 3    | --- | --- |

**Depot:** VOLVO0092  
**Unique No:** 11110475  
**Signed:** Wes Davis  
**Report Date:** 03 Jul 2024

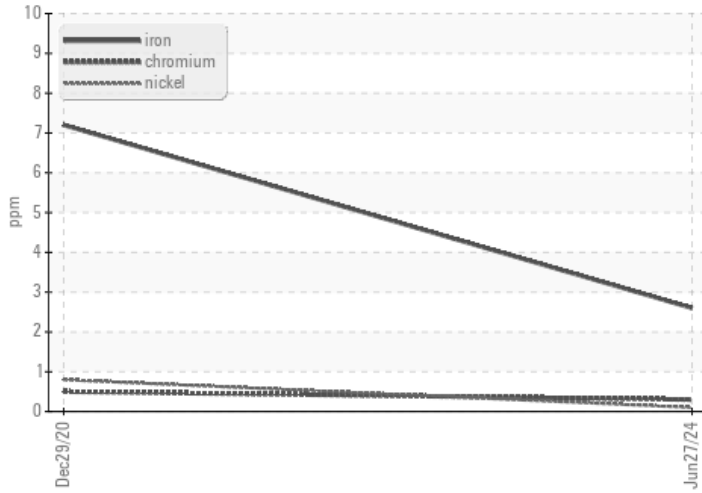


# CONSTRUCTION EQUIPMENT

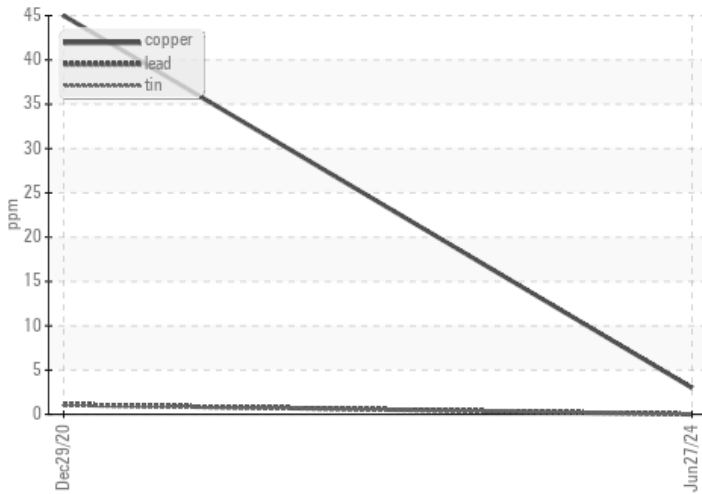


## GRAPHS

### Ferrous Alloys



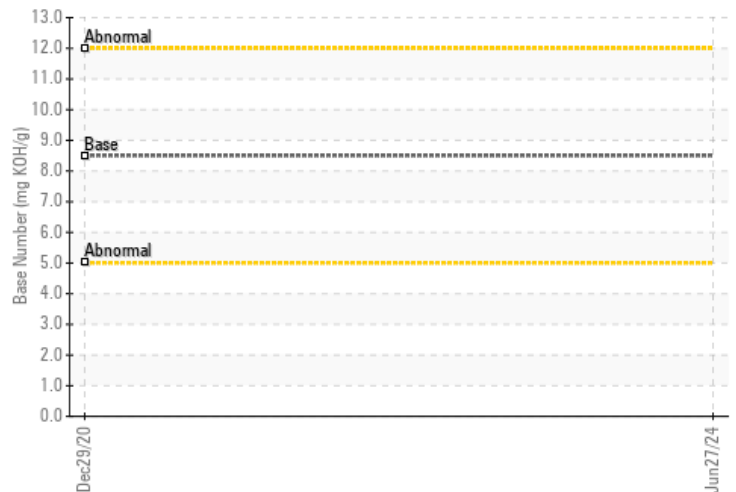
### Non-ferrous Metals



### Viscosity @ 100°C



### Base Number





# CONSTRUCTION EQUIPMENT

62551 SUPERIOR VOLVO A45G 352205 - DIESEL FUEL



**Sample No:** VCP301494  
**Oil Type:** {unknown}  
**Job No:** 62551 SUPERIOR



## SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP301494   | --- | --- | --- |
| Sample Date   | 29 Dec 2020 | --- | --- | --- |
| Machine Hours | 0           | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

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## FUEL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Sulfur      | ppm | █ 1    | --- | --- | --- |
| Visc @ 40°C | cSt | █ 2.31 | --- | --- | --- |



## CONTAMINATION

|          |     |         |     |     |     |
|----------|-----|---------|-----|-----|-----|
| Water    | %   | █ 0.003 | --- | --- | --- |
| Lead     | ppm | █ 3     | --- | --- | --- |
| Nickel   | ppm | █ 0     | --- | --- | --- |
| Aluminum | ppm | █ 0     | --- | --- | --- |
| Vanadium | ppm | █ 0     | --- | --- | --- |
| Silicon  | ppm | █ 0     | --- | --- | --- |

### Diagnosis

This is a baseline read-out on the submitted sample. The water content is negligible. There is no indication of any contamination in the fuel.

**Depot:** VOLVO0092  
**Unique No:** 9309600  
**Signed:** Jonathan Hester  
**Report Date:** 06 Jan 2021

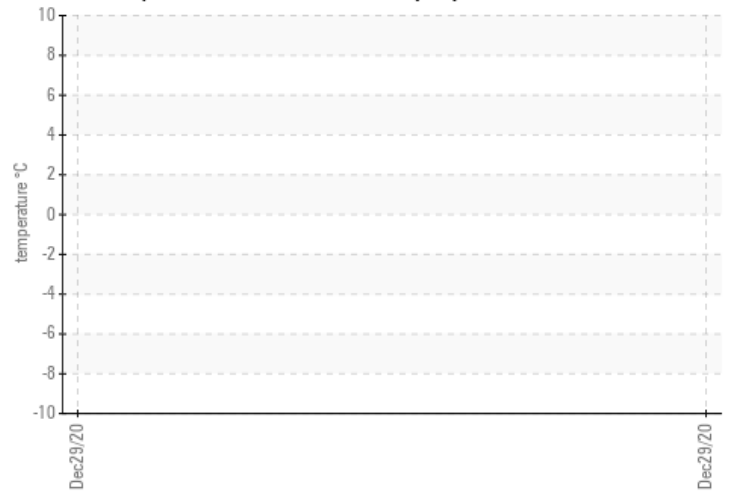


# CONSTRUCTION EQUIPMENT



## GRAPHS

Pensky-Martens Flash Point (°C)





# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - TRANSMISSION



**Sample No:** VCP0008493

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP0008493  | --- | --- | --- |
| Sample Date   | 27 Jun 2024 | --- | --- | --- |
| Machine Hours | 3971        | --- | --- | --- |
| Oil Hours     | 3971        | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

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### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 30.3 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



### CONTAMINATION

|           |     |      |     |     |     |
|-----------|-----|------|-----|-----|-----|
| Water     | %   | NEG  | --- | --- | --- |
| Silicon   | ppm | ■ 2  | --- | --- | --- |
| Sodium    | ppm | ■ 1  | --- | --- | --- |
| Potassium | ppm | ■ <1 | --- | --- | --- |



### WEAR METALS

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Iron       | ppm | ■ 0 | --- | --- | --- |
| Copper     | ppm | ■ 0 | --- | --- | --- |
| Lead       | ppm | ■ 0 | --- | --- | --- |
| Tin        | ppm | ■ 0 | --- | --- | --- |
| Aluminum   | ppm | ■ 0 | --- | --- | --- |
| Chromium   | ppm | ■ 0 | --- | --- | --- |
| Molybdenum | ppm | 0   | --- | --- | --- |
| Nickel     | ppm | ■ 0 | --- | --- | --- |
| Titanium   | ppm | 0   | --- | --- | --- |
| Silver     | ppm | 0   | --- | --- | --- |
| Manganese  | ppm | 0   | --- | --- | --- |
| Vanadium   | ppm | 0   | --- | --- | --- |



### ADDITIVES

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 75  | --- | --- | --- |
| Magnesium  | ppm | 3   | --- | --- | --- |
| Zinc       | ppm | 7   | --- | --- | --- |
| Phosphorus | ppm | 207 | --- | --- | --- |
| Barium     | ppm | <1  | --- | --- | --- |
| Boron      | ppm | 94  | --- | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

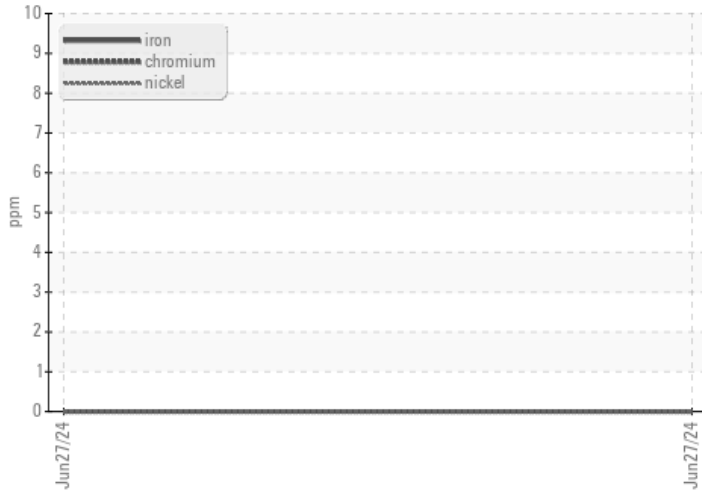
**Depot:** VOLVO0092  
**Unique No:** 11111485  
**Signed:** Don Baldrige  
**Report Date:** 07 Jul 2024

Submitted By: TECHNICIAN ACCOUNT

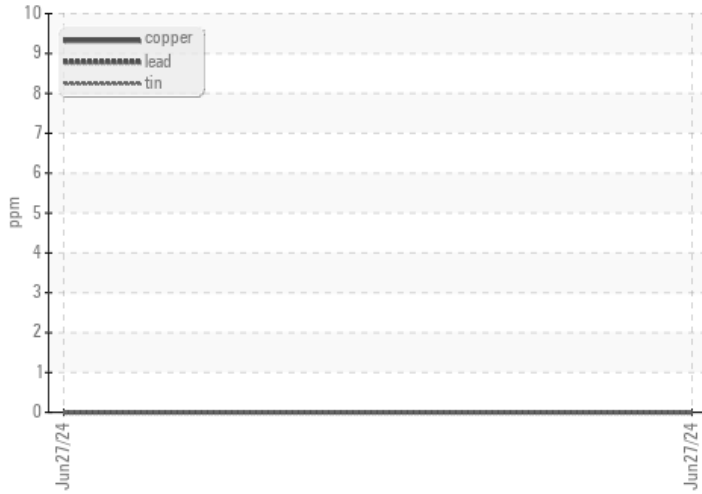


## GRAPHS

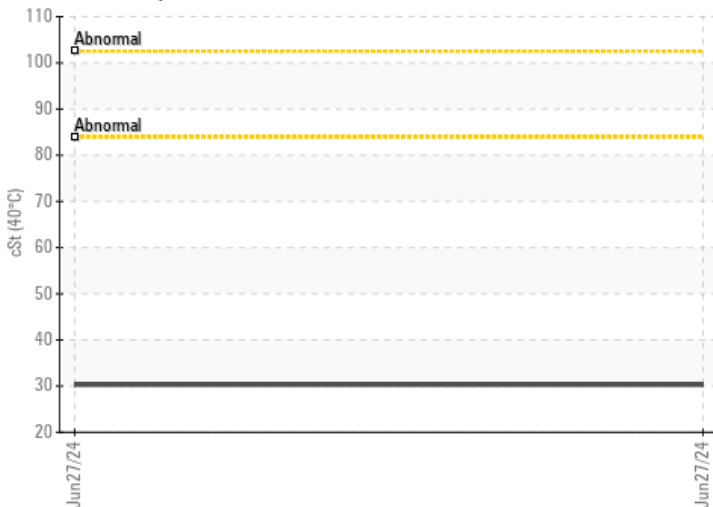
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C







# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - BRAKE COOLING SYSTEM



**Sample No:** VCP0008491

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP0008491  | --- | --- | --- |
| Sample Date   | 27 Jun 2024 | --- | --- | --- |
| Machine Hours | 3971        | --- | --- | --- |
| Oil Hours     | 3971        | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | ABNORMAL    | --- | --- | --- |

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### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 41.7 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



### CONTAMINATION

|           |     |      |     |     |     |
|-----------|-----|------|-----|-----|-----|
| Water     | %   | NEG  | --- | --- | --- |
| Silicon   | ppm | ■ 16 | --- | --- | --- |
| Sodium    | ppm | ■ 5  | --- | --- | --- |
| Potassium | ppm | ■ 0  | --- | --- | --- |



### WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | ■ 14  | --- | --- | --- |
| Copper     | ppm | ▲ 204 | --- | --- | --- |
| Lead       | ppm | ■ <1  | --- | --- | --- |
| Tin        | ppm | ■ 0   | --- | --- | --- |
| Aluminum   | ppm | ■ <1  | --- | --- | --- |
| Chromium   | ppm | ■ <1  | --- | --- | --- |
| Molybdenum | ppm | 0     | --- | --- | --- |
| Nickel     | ppm | ■ 2   | --- | --- | --- |
| Titanium   | ppm | 0     | --- | --- | --- |
| Silver     | ppm | 0     | --- | --- | --- |
| Manganese  | ppm | 1     | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |



### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 2971 | --- | --- | --- |
| Magnesium  | ppm | 12   | --- | --- | --- |
| Zinc       | ppm | 1313 | --- | --- | --- |
| Phosphorus | ppm | 1142 | --- | --- | --- |
| Barium     | ppm | 0    | --- | --- | --- |
| Boron      | ppm | 81   | --- | --- | --- |

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

**Depot:** VOLVO0092  
**Unique No:** 11111450  
**Signed:** Don Baldrige  
**Report Date:** 07 Jul 2024

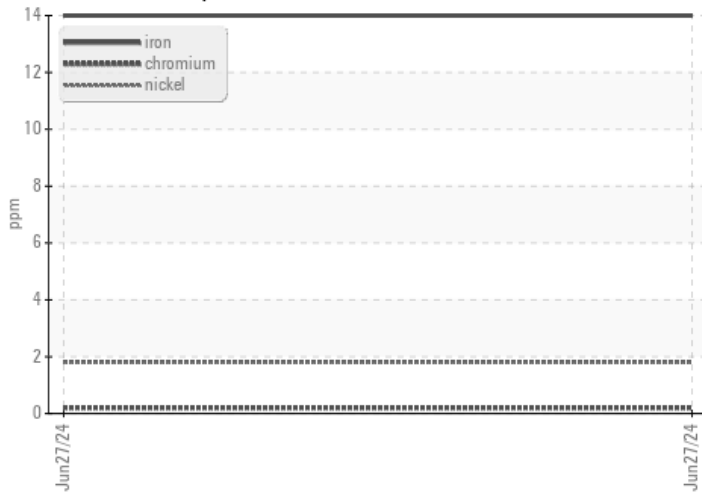


# CONSTRUCTION EQUIPMENT



## GRAPHS

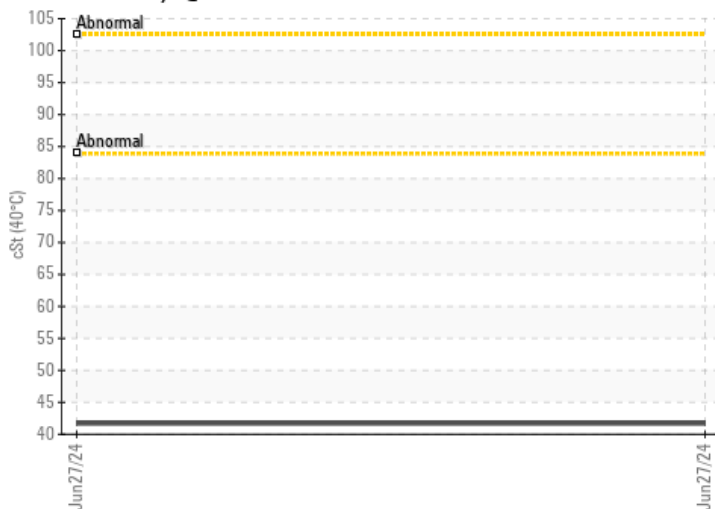
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C





# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - HYDRAULIC SYSTEM



**Sample No:** VCP0008489

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP0008489  | --- | --- | --- |
| Sample Date   | 27 Jun 2024 | --- | --- | --- |
| Machine Hours | 3971        | --- | --- | --- |
| Oil Hours     | 3971        | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

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### OIL CONDITION

|                  |          |        |     |     |     |
|------------------|----------|--------|-----|-----|-----|
| Visc @ 40°C      | cSt      | █ 41.1 | --- | --- | --- |
| Acid Number (AN) | mg KOH/g | █ 0.43 | --- | --- | --- |



### CONTAMINATION

|                   |     |          |     |     |     |
|-------------------|-----|----------|-----|-----|-----|
| Water             | %   | NEG      | --- | --- | --- |
| Particles >4µm    |     | █ 2321   | --- | --- | --- |
| Particles >6µm    |     | █ 580    | --- | --- | --- |
| Particles >14µm   |     | █ 43     | --- | --- | --- |
| ISO 4406:1999 (c) |     | 18/16/13 | --- | --- | --- |
| Silicon           | ppm | █ 5      | --- | --- | --- |
| Sodium            | ppm | █ 4      | --- | --- | --- |
| Potassium         | ppm | █ 0      | --- | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | █ 12 | --- | --- | --- |
| Copper     | ppm | █ 4  | --- | --- | --- |
| Lead       | ppm | █ 2  | --- | --- | --- |
| Tin        | ppm | █ 0  | --- | --- | --- |
| Aluminum   | ppm | █ <1 | --- | --- | --- |
| Chromium   | ppm | █ 0  | --- | --- | --- |
| Molybdenum | ppm | <1   | --- | --- | --- |
| Nickel     | ppm | █ 0  | --- | --- | --- |
| Titanium   | ppm | 0    | --- | --- | --- |
| Silver     | ppm | 0    | --- | --- | --- |
| Manganese  | ppm | 0    | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



### ADDITIVES

|            |     |     |     |     |     |
|------------|-----|-----|-----|-----|-----|
| Calcium    | ppm | 60  | --- | --- | --- |
| Magnesium  | ppm | 3   | --- | --- | --- |
| Zinc       | ppm | 410 | --- | --- | --- |
| Phosphorus | ppm | 326 | --- | --- | --- |
| Barium     | ppm | 0   | --- | --- | --- |
| Boron      | ppm | 0   | --- | --- | --- |

**Depot:** VOLVO0092  
**Unique No:** 11110846  
**Signed:** Wes Davis  
**Report Date:** 05 Jul 2024

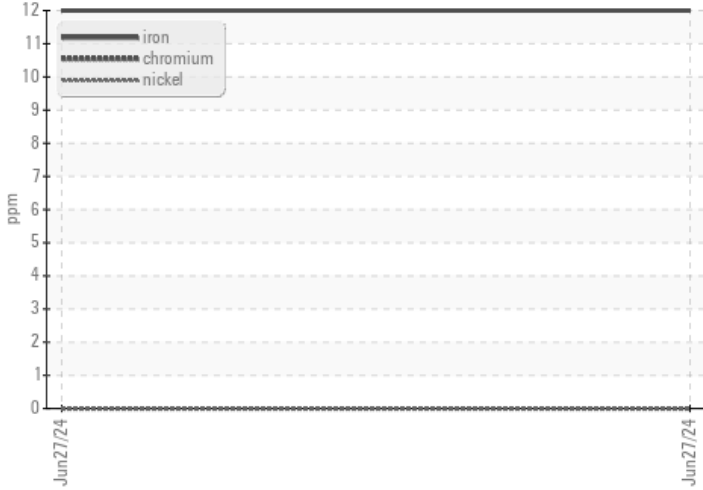


# CONSTRUCTION EQUIPMENT

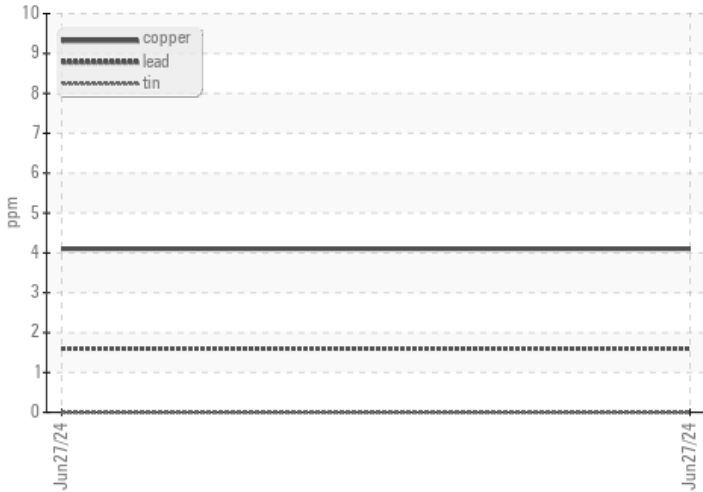


## VOLVO GRAPHS

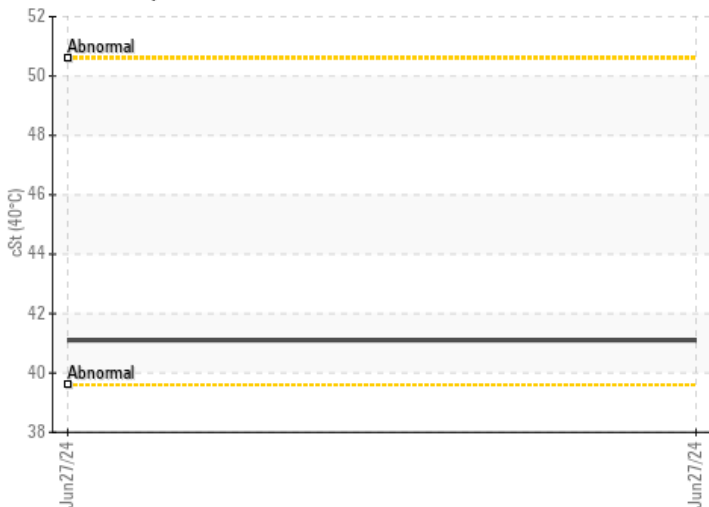
### Ferrous Alloys



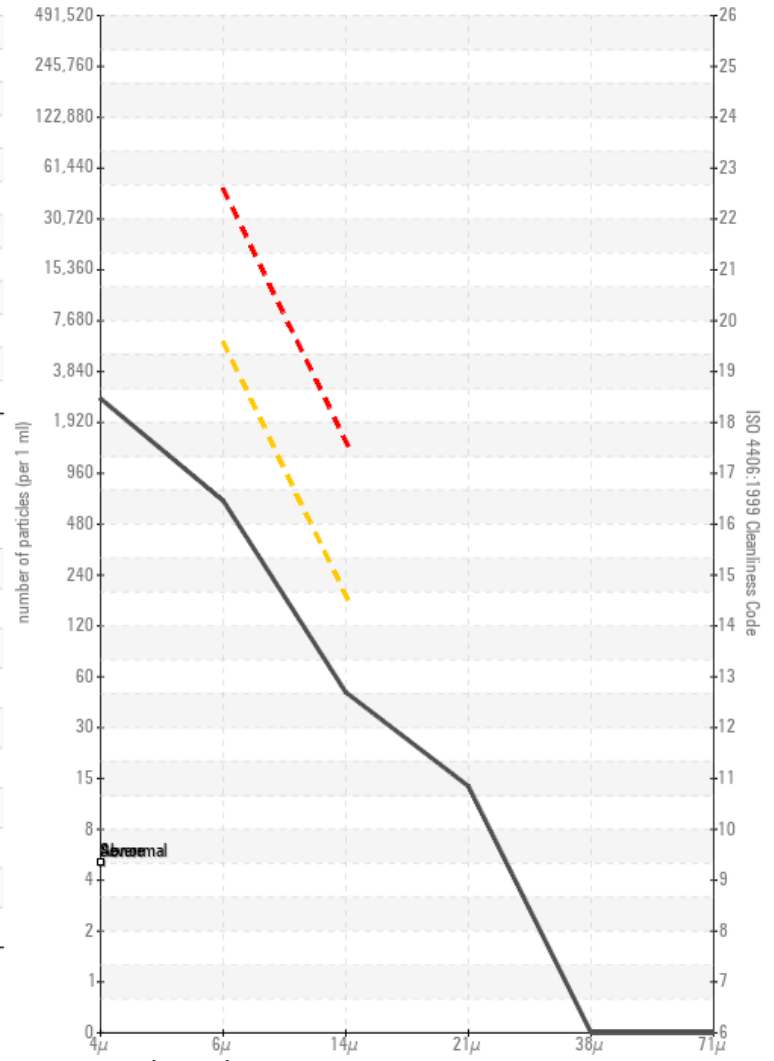
### Non-ferrous Metals



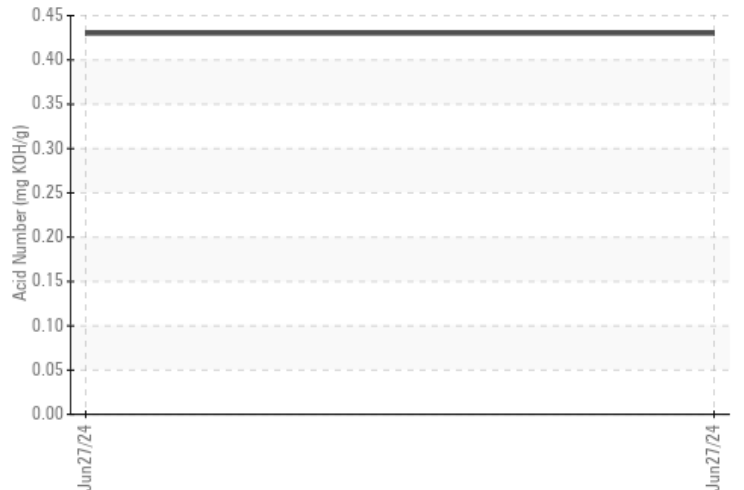
### Viscosity @ 40°C



### Particle Count



### Acid Number





# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - FRONT AXLE



**Sample No:** VCP0008495

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP0008495  | --- | --- | --- |
| Sample Date   | 27 Jun 2024 | --- | --- | --- |
| Machine Hours | 3971        | --- | --- | --- |
| Oil Hours     | 3971        | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

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### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 84.5 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



### CONTAMINATION

|           |     |      |     |     |     |
|-----------|-----|------|-----|-----|-----|
| Water     | %   | NEG  | --- | --- | --- |
| Silicon   | ppm | ■ 15 | --- | --- | --- |
| Sodium    | ppm | ■ 2  | --- | --- | --- |
| Potassium | ppm | ■ 2  | --- | --- | --- |



### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | ■ 84 | --- | --- | --- |
| Copper     | ppm | ■ <1 | --- | --- | --- |
| Lead       | ppm | ■ 0  | --- | --- | --- |
| Tin        | ppm | ■ 0  | --- | --- | --- |
| Aluminum   | ppm | ■ 2  | --- | --- | --- |
| Chromium   | ppm | ■ <1 | --- | --- | --- |
| Molybdenum | ppm | 38   | --- | --- | --- |
| Nickel     | ppm | ■ 0  | --- | --- | --- |
| Titanium   | ppm | <1   | --- | --- | --- |
| Silver     | ppm | 0    | --- | --- | --- |
| Manganese  | ppm | 2    | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 677  | --- | --- | --- |
| Magnesium  | ppm | 39   | --- | --- | --- |
| Zinc       | ppm | 335  | --- | --- | --- |
| Phosphorus | ppm | 1307 | --- | --- | --- |
| Barium     | ppm | 0    | --- | --- | --- |
| Boron      | ppm | 251  | --- | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0092  
**Unique No:** 11111456  
**Signed:** Wes Davis  
**Report Date:** 05 Jul 2024

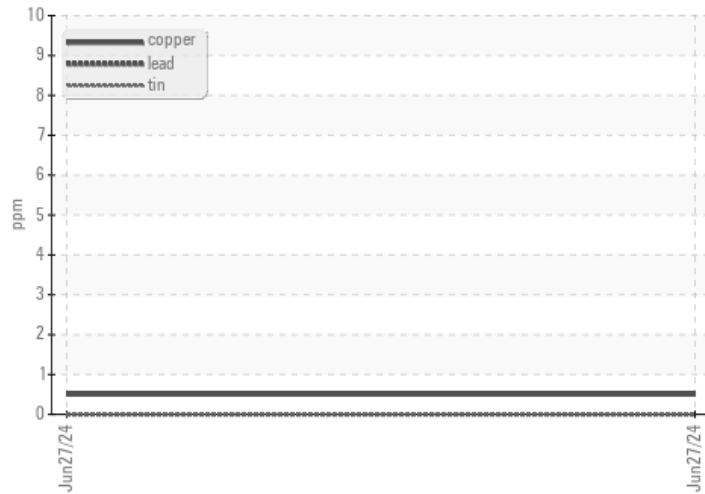


## GRAPHS

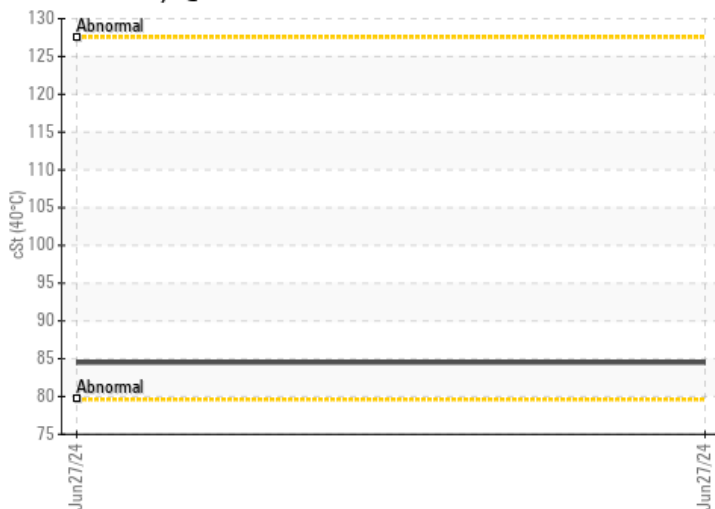
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C





# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - BOGIE/CENTER AXLE



**Sample No:** VCP0008487

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |                    |             |     |     |
|---------------|--------------------|-------------|-----|-----|
| Sample Number | <b>VCP0008487</b>  | VCP321191   | --- | --- |
| Sample Date   | <b>27 Jun 2024</b> | 29 Jul 2021 | --- | --- |
| Machine Hours | <b>8083</b>        | 3971        | --- | --- |
| Oil Hours     | <b>8083</b>        | 1971        | --- | --- |
| Oil Changed   | <b>N/A</b>         | Not Changd  | --- | --- |
| Sample Status | <b>NORMAL</b>      | NORMAL      | --- | --- |

### ALTA EQUIPMENT COMPANY

8750 PHILIPS HWY  
JACKSONVILLE, FL  
US 32256

Contact: SHAWN NORTHCRAFT  
shawn.northcraft@altg.com  
T: (904)737-6000  
F: (904)737-1260



### OIL CONDITION

|             |     |            |      |     |     |
|-------------|-----|------------|------|-----|-----|
| Visc @ 40°C | cSt | <b>146</b> | 92.3 | --- | --- |
|-------------|-----|------------|------|-----|-----|



### CONTAMINATION

|           |     |              |     |     |     |
|-----------|-----|--------------|-----|-----|-----|
| Water     | %   | <b>NEG</b>   | NEG | --- | --- |
| Silicon   | ppm | <b>28</b>    | 5   | --- | --- |
| Sodium    | ppm | <b>&lt;1</b> | <1  | --- | --- |
| Potassium | ppm | <b>2</b>     | 2   | --- | --- |



### WEAR METALS

|            |     |              |     |     |     |
|------------|-----|--------------|-----|-----|-----|
| Iron       | ppm | <b>273</b>   | 497 | --- | --- |
| Copper     | ppm | <b>2</b>     | 2   | --- | --- |
| Lead       | ppm | <b>0</b>     | 0   | --- | --- |
| Tin        | ppm | <b>0</b>     | 0   | --- | --- |
| Aluminum   | ppm | <b>2</b>     | 0   | --- | --- |
| Chromium   | ppm | <b>3</b>     | 6   | --- | --- |
| Molybdenum | ppm | <b>2</b>     | 41  | --- | --- |
| Nickel     | ppm | <b>0</b>     | 2   | --- | --- |
| Titanium   | ppm | <b>&lt;1</b> | 0   | --- | --- |
| Silver     | ppm | <b>0</b>     | 0   | --- | --- |
| Manganese  | ppm | <b>5</b>     | 7   | --- | --- |
| Vanadium   | ppm | <b>0</b>     | 0   | --- | --- |



### ADDITIVES

|            |     |              |      |     |     |
|------------|-----|--------------|------|-----|-----|
| Calcium    | ppm | <b>36</b>    | 834  | --- | --- |
| Magnesium  | ppm | <b>2</b>     | 43   | --- | --- |
| Zinc       | ppm | <b>23</b>    | 395  | --- | --- |
| Phosphorus | ppm | <b>2163</b>  | 1363 | --- | --- |
| Barium     | ppm | <b>&lt;1</b> | 1    | --- | --- |
| Boron      | ppm | <b>186</b>   | 350  | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

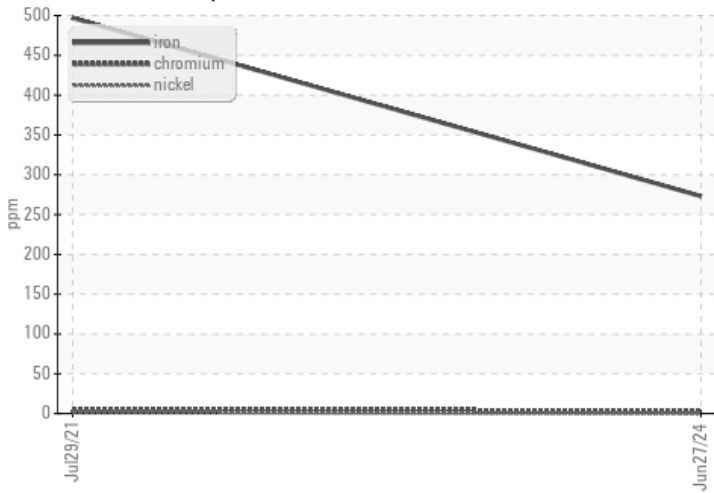
**Depot:** VOLVO0092  
**Unique No:** 11111454  
**Signed:** Don Baldrige  
**Report Date:** 07 Jul 2024

Submitted By: TECHNICIAN ACCOUNT

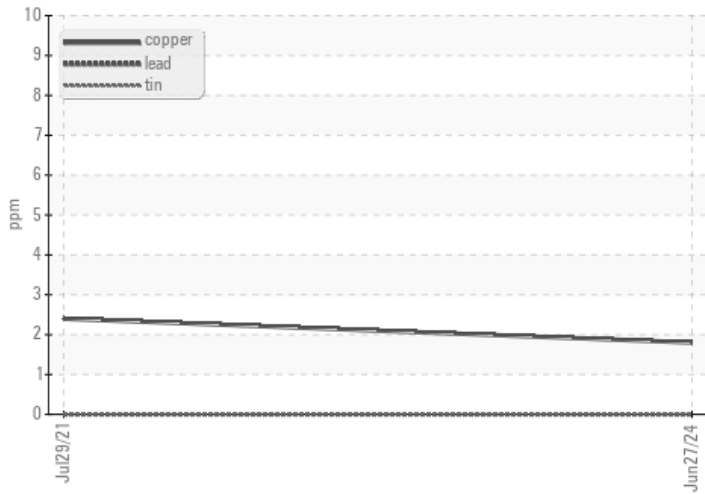


## GRAPHS

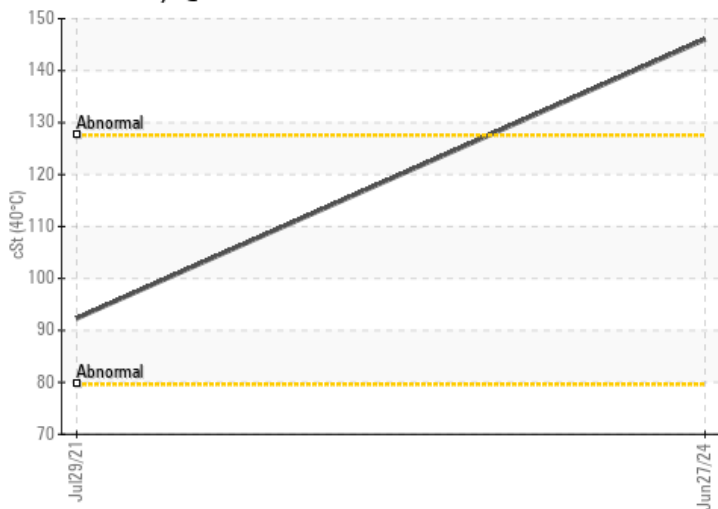
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C







# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - REAR AXLE



**Sample No:** VCP0008494

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP0008494  | --- | --- | --- |
| Sample Date   | 27 Jun 2024 | --- | --- | --- |
| Machine Hours | 3971        | --- | --- | --- |
| Oil Hours     | 3971        | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### ALTA EQUIPMENT COMPANY

8750 PHILIPS HWY  
JACKSONVILLE, FL  
US 32256

Contact: TECHNICIAN ACCOUNT  
catherine.anastasio@wearcheck.com  
T:  
F: (904)737-1260



### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 87.3 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



### CONTAMINATION

|           |     |     |     |     |     |
|-----------|-----|-----|-----|-----|-----|
| Water     | %   | NEG | --- | --- | --- |
| Silicon   | ppm | ■ 4 | --- | --- | --- |
| Sodium    | ppm | ■ 2 | --- | --- | --- |
| Potassium | ppm | ■ 2 | --- | --- | --- |



### WEAR METALS

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Iron       | ppm | ■ 95 | --- | --- | --- |
| Copper     | ppm | ■ 2  | --- | --- | --- |
| Lead       | ppm | ■ 0  | --- | --- | --- |
| Tin        | ppm | ■ 0  | --- | --- | --- |
| Aluminum   | ppm | ■ <1 | --- | --- | --- |
| Chromium   | ppm | ■ 1  | --- | --- | --- |
| Molybdenum | ppm | 45   | --- | --- | --- |
| Nickel     | ppm | ■ 0  | --- | --- | --- |
| Titanium   | ppm | 0    | --- | --- | --- |
| Silver     | ppm | 0    | --- | --- | --- |
| Manganese  | ppm | 3    | --- | --- | --- |
| Vanadium   | ppm | 0    | --- | --- | --- |



### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 786  | --- | --- | --- |
| Magnesium  | ppm | 42   | --- | --- | --- |
| Zinc       | ppm | 367  | --- | --- | --- |
| Phosphorus | ppm | 1326 | --- | --- | --- |
| Barium     | ppm | 0    | --- | --- | --- |
| Boron      | ppm | 250  | --- | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0092

**Unique No:** 11111451

**Signed:** Wes Davis

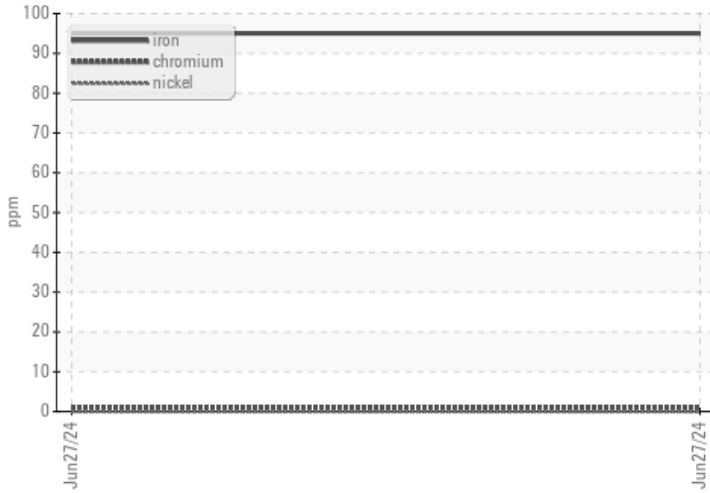
**Report Date:** 05 Jul 2024

Submitted By: TECHNICIAN ACCOUNT

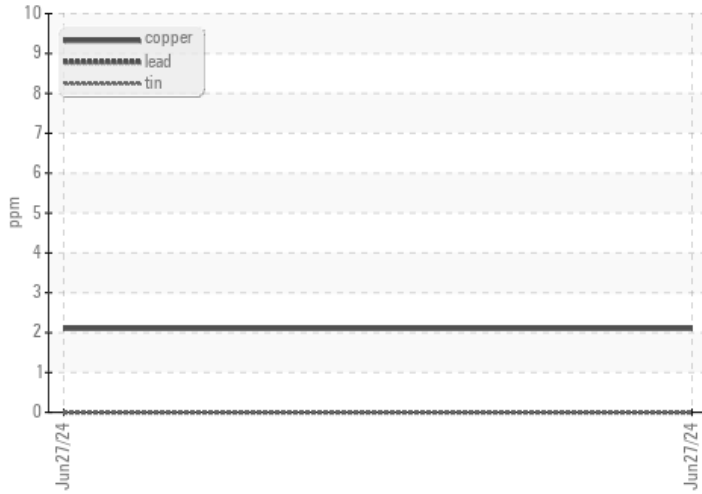


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C





# CONSTRUCTION EQUIPMENT

## VOLVO A45G 352205 - DROP BOX



**Sample No:** VCP0008492

**Oil Type:** {unknown}

**Job No:**



### SAMPLE INFORMATION

|               |             |     |     |     |
|---------------|-------------|-----|-----|-----|
| Sample Number | VCP0008492  | --- | --- | --- |
| Sample Date   | 27 Jun 2024 | --- | --- | --- |
| Machine Hours | 3971        | --- | --- | --- |
| Oil Hours     | 3971        | --- | --- | --- |
| Oil Changed   | N/A         | --- | --- | --- |
| Sample Status | NORMAL      | --- | --- | --- |

### ALTA EQUIPMENT COMPANY

8750 PHILIPS HWY  
JACKSONVILLE, FL  
US 32256

Contact: TECHNICIAN ACCOUNT  
catherine.anastasio@wearcheck.com

T:  
F: (904)737-1260



### OIL CONDITION

|             |     |        |     |     |     |
|-------------|-----|--------|-----|-----|-----|
| Visc @ 40°C | cSt | ■ 85.6 | --- | --- | --- |
|-------------|-----|--------|-----|-----|-----|



### CONTAMINATION

|           |     |      |     |     |     |
|-----------|-----|------|-----|-----|-----|
| Water     | %   | NEG  | --- | --- | --- |
| Silicon   | ppm | ■ 3  | --- | --- | --- |
| Sodium    | ppm | ■ 1  | --- | --- | --- |
| Potassium | ppm | ■ <1 | --- | --- | --- |



### WEAR METALS

|            |     |       |     |     |     |
|------------|-----|-------|-----|-----|-----|
| Iron       | ppm | ■ 311 | --- | --- | --- |
| Copper     | ppm | ■ 12  | --- | --- | --- |
| Lead       | ppm | ■ 0   | --- | --- | --- |
| Tin        | ppm | ■ 0   | --- | --- | --- |
| Aluminum   | ppm | ■ 2   | --- | --- | --- |
| Chromium   | ppm | ■ 2   | --- | --- | --- |
| Molybdenum | ppm | 8     | --- | --- | --- |
| Nickel     | ppm | ■ 0   | --- | --- | --- |
| Titanium   | ppm | 0     | --- | --- | --- |
| Silver     | ppm | 0     | --- | --- | --- |
| Manganese  | ppm | 4     | --- | --- | --- |
| Vanadium   | ppm | 0     | --- | --- | --- |



### ADDITIVES

|            |     |      |     |     |     |
|------------|-----|------|-----|-----|-----|
| Calcium    | ppm | 107  | --- | --- | --- |
| Magnesium  | ppm | 6    | --- | --- | --- |
| Zinc       | ppm | 62   | --- | --- | --- |
| Phosphorus | ppm | 1221 | --- | --- | --- |
| Barium     | ppm | 0    | --- | --- | --- |
| Boron      | ppm | 207  | --- | --- | --- |

### Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO0092

**Unique No:** 11111453

**Signed:** Wes Davis

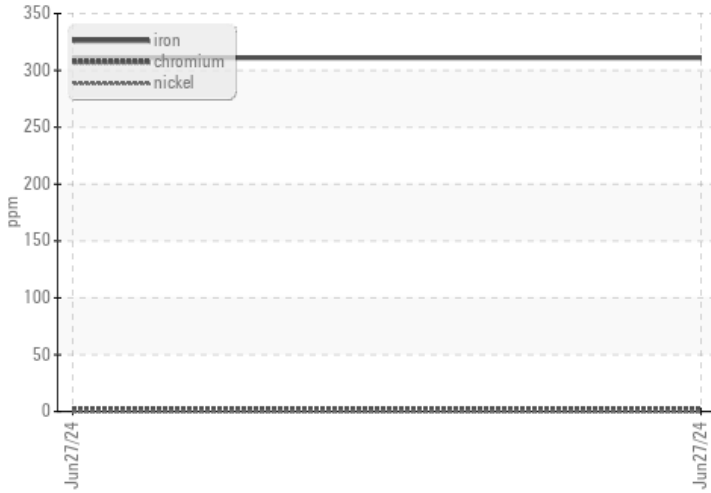
**Report Date:** 05 Jul 2024

Submitted By: TECHNICIAN ACCOUNT

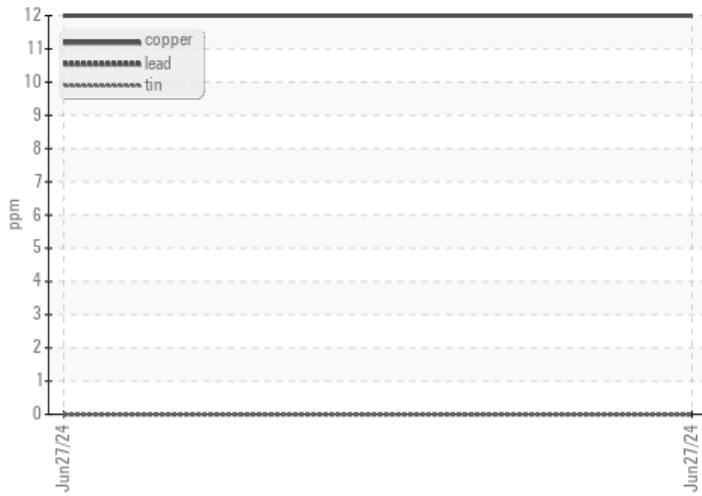


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C

