



# CONSTRUCTION EQUIPMENT

717334 RENTALS VOLVO A25G 752508 - DIESEL ENGINE



**Sample No:** VCP449955  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** 717334 RENTALS



**ALTA EQUIPMENT COMPANY**  
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## SAMPLE INFORMATION

Sample Number	VCP449955	VCP420953	---	---
Sample Date	28 May 2024	02 Dec 2023	---	---
Machine Hours	2477	1734	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	SEVERE	SEVERE	---	---



## OIL CONDITION

Visc @ 100°C	cSt	▲ 5.7	▲ 6.5	---	---
Base Number (BN)	mg KOH/g	■ 6.8	■ 5.2	---	---
Oxidation (PA)	%	78	69	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.3	■ 0.4	---	---
Nitration (PA)	%	67	76	---	---
Sulfation (PA)	%	56	55	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	▲ 37.6	▲ 34.2	---	---
Silicon	ppm	■ 4	■ 5	---	---
Sodium	ppm	■ 3	■ 2	---	---
Potassium	ppm	■ 2	■ 0	---	---



## WEAR METALS

Iron	ppm	■ 12	■ 16	---	---
Copper	ppm	■ 13	■ 50	---	---
Lead	ppm	■ <1	■ 1	---	---
Tin	ppm	■ 1	■ 2	---	---
Aluminum	ppm	■ 2	■ 1	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 26	■ 35	---	---
Nickel	ppm	■ 2	■ 6	---	---
Titanium	ppm	■ 0	0	---	---
Silver	ppm	■ <1	■ 0	---	---
Manganese	ppm	■ 1	1	---	---
Vanadium	ppm	0	<1	---	---



## ADDITIVES

Calcium	ppm	■ 963	■ 1163	---	---
Magnesium	ppm	■ 279	■ 304	---	---
Zinc	ppm	▲ 616	699	---	---
Phosphorus	ppm	▲ 528	548	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 8	■ 8	---	---

## Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. Visc @ 100°C is severely low. Phosphorus ppm levels are abnormally low. Zinc ppm levels are abnormally low. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

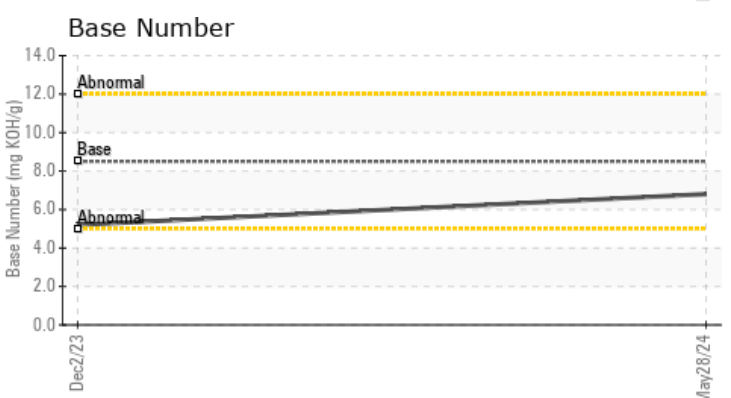
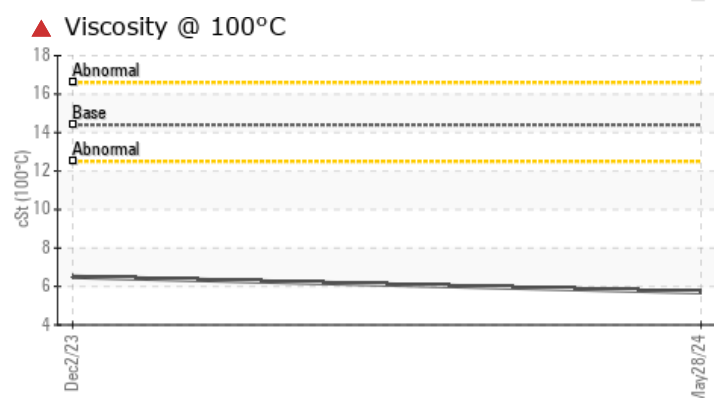
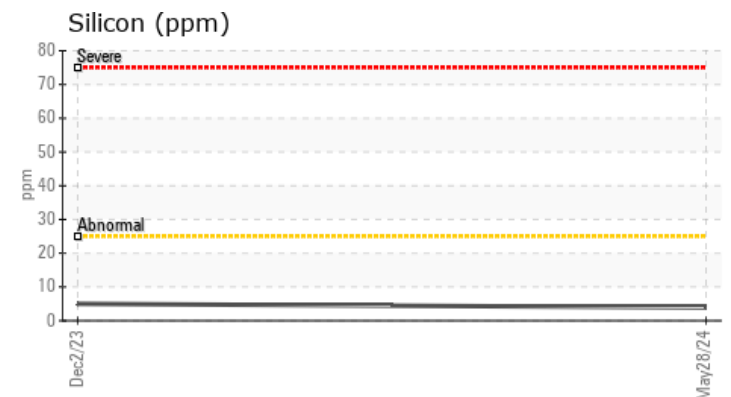
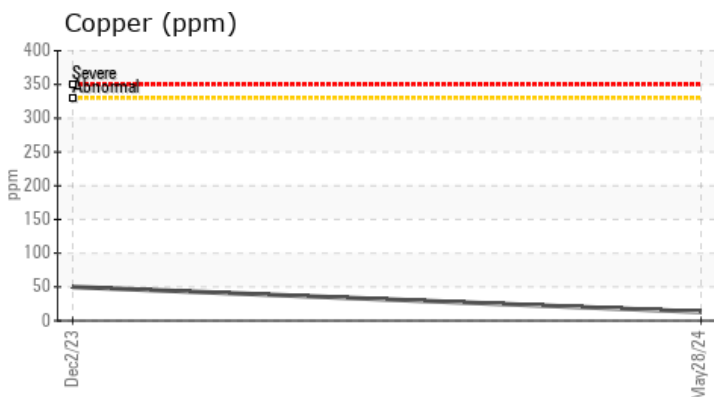
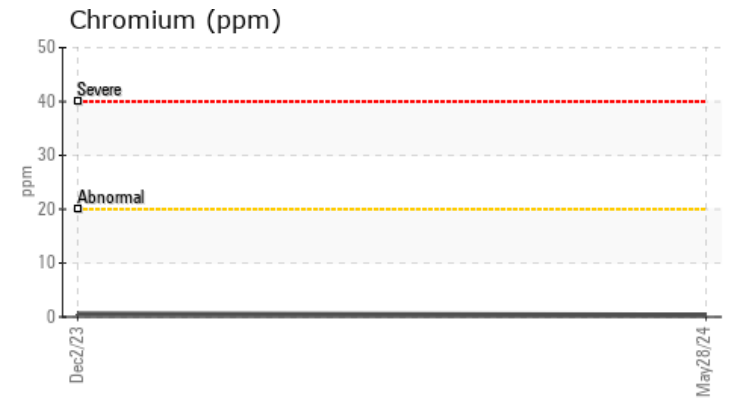
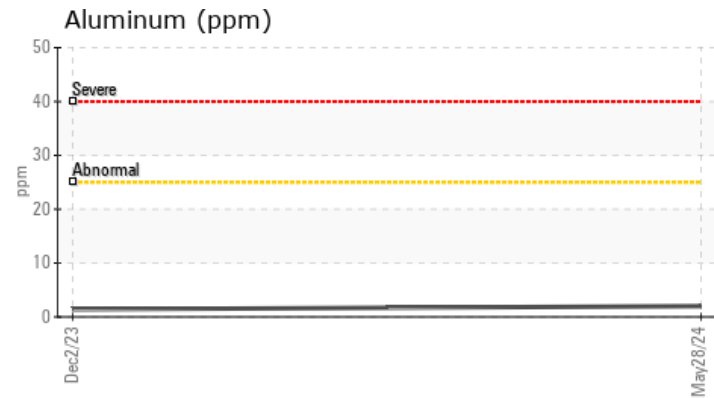
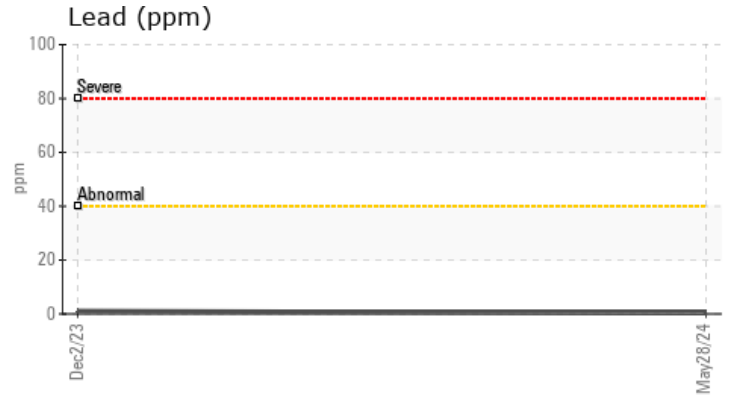
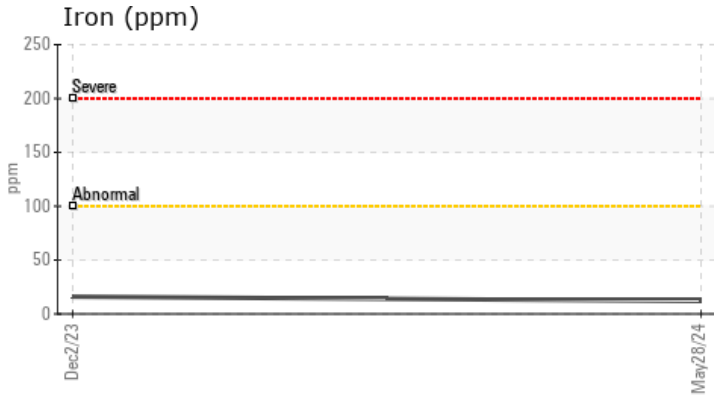
**Depot:** VOLVO0090  
**Unique No:** 11060794  
**Signed:** Wes Davis  
**Report Date:** 06 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

717334 RENTALS VOLVO A25G 752508 - WET DISC BRAKE



**Sample No:** VCP449961  
**Oil Type:** VOLVO WET BRAKE TRANSAXLE OIL  
**Job No:** 717334 RENTALS



## SAMPLE INFORMATION

Sample Number	VCP449961	---	---	---
Sample Date	28 May 2024	---	---	---
Machine Hours	2477	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 44.3	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ 1	---	---	---



## WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	▲ 254	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 0	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 3479	---	---	---
Magnesium	ppm	█ 7	---	---	---
Zinc	ppm	█ 1358	---	---	---
Phosphorus	ppm	█ 1260	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 139	---	---	---

## Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The condition of the oil is acceptable for the time in service.

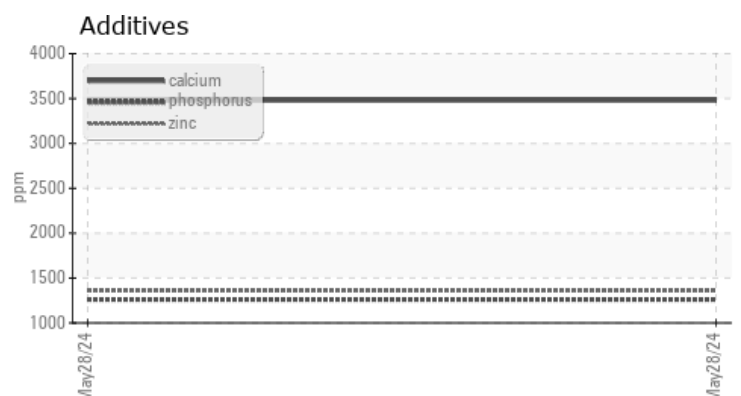
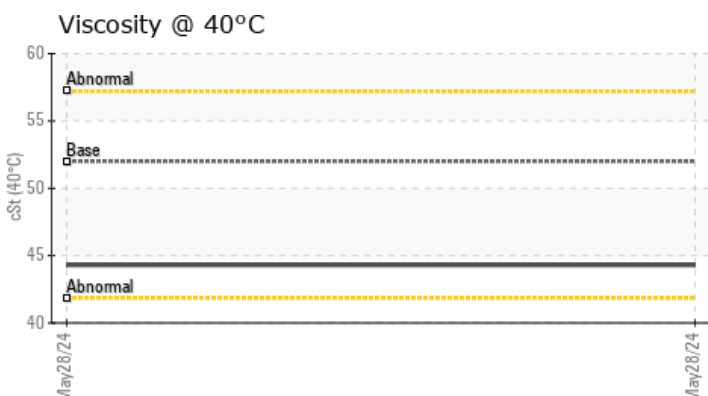
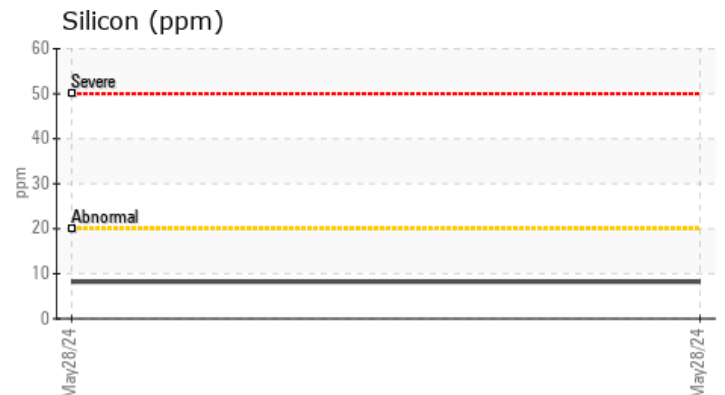
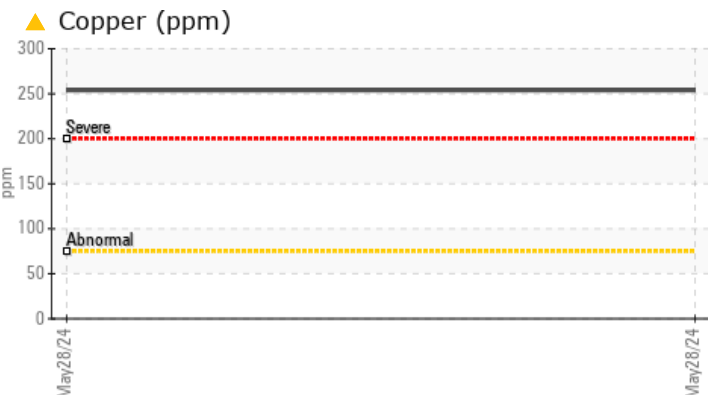
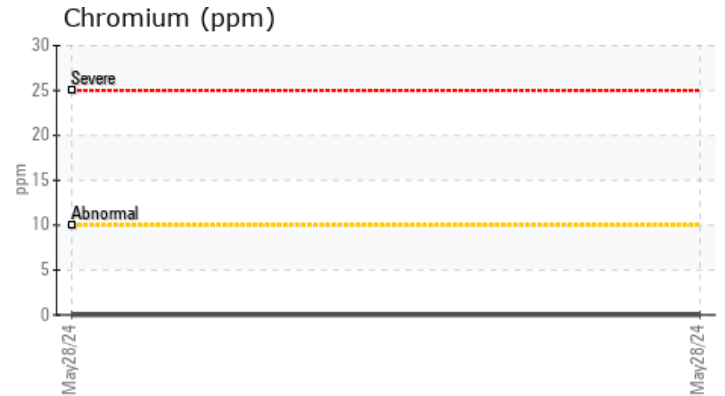
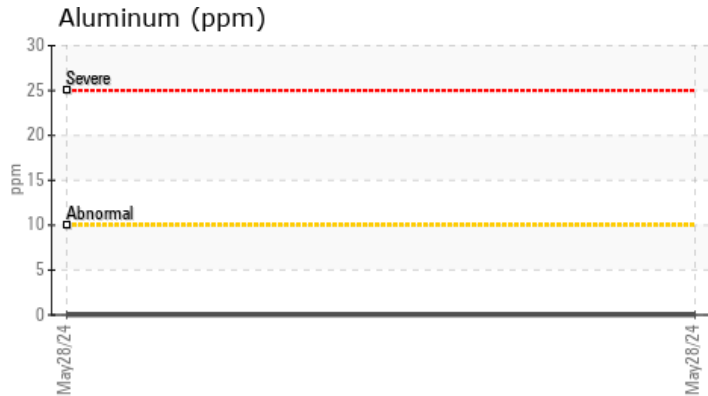
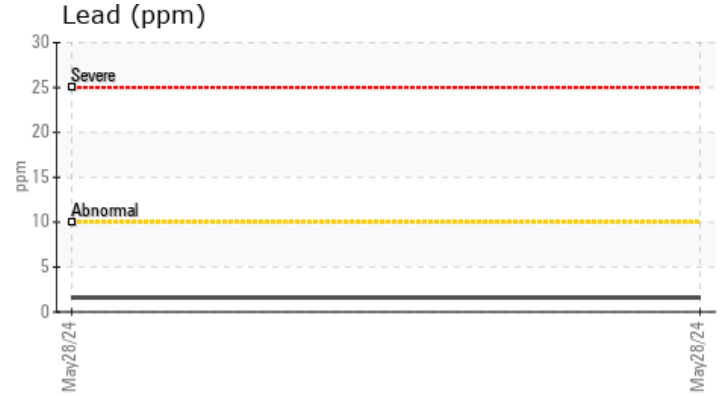
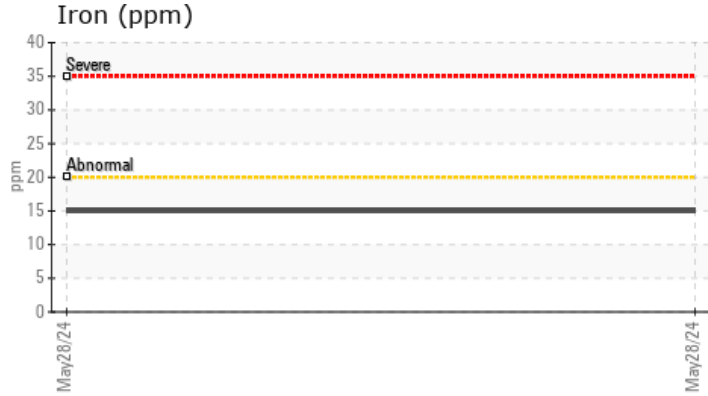
**Depot:** VOLVO0090  
**Unique No:** 11061756  
**Signed:** Don Baldrige  
**Report Date:** 06 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

## 717334 RENTALS VOLVO A25G 752508 - HYDRAULIC SYSTEM



**Sample No:** VCP454555  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** 717334 RENTALS



### SAMPLE INFORMATION

Sample Number	VCP454555	---	---	---
Sample Date	28 May 2024	---	---	---
Machine Hours	2477	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	█ 44.6	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.42	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		█ 10384	---	---	---
Particles >6µm		█ 2267	---	---	---
Particles >14µm		● 224	---	---	---
ISO 4406:1999 (c)		21/18/15	---	---	---
Silicon	ppm	█ 8	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 1	---	---	---

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	█ 11	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ 2	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 4	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	█ 67	---	---	---
Magnesium	ppm	█ 4	---	---	---
Zinc	ppm	█ 406	---	---	---
Phosphorus	ppm	█ 333	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** VOLVO0090  
**Unique No:** 11061188  
**Signed:** Wes Davis  
**Report Date:** 05 Jun 2024

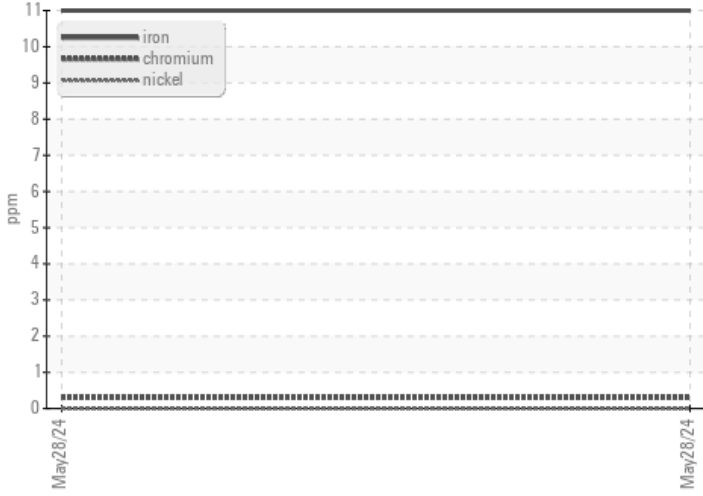


# CONSTRUCTION EQUIPMENT

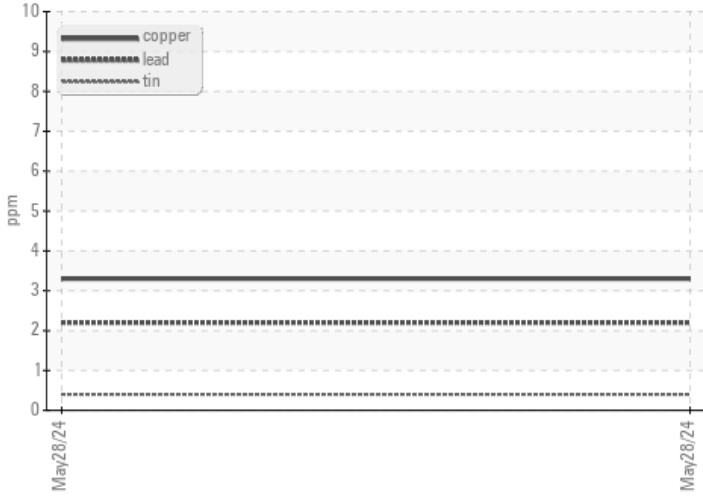


## GRAPHS

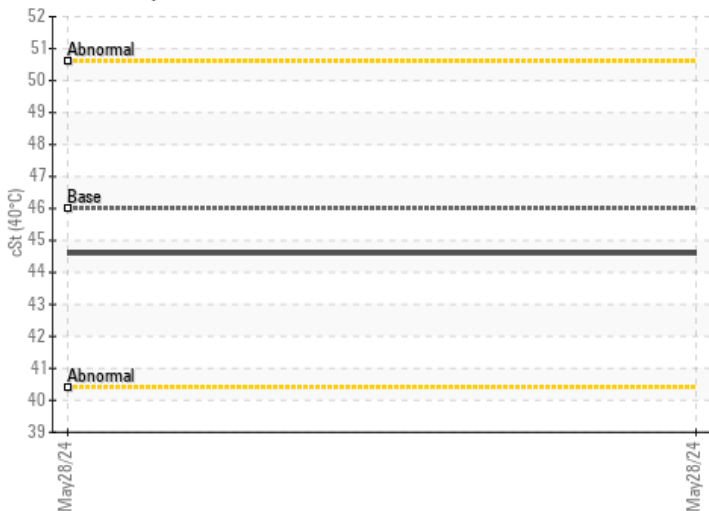
### Ferrous Alloys



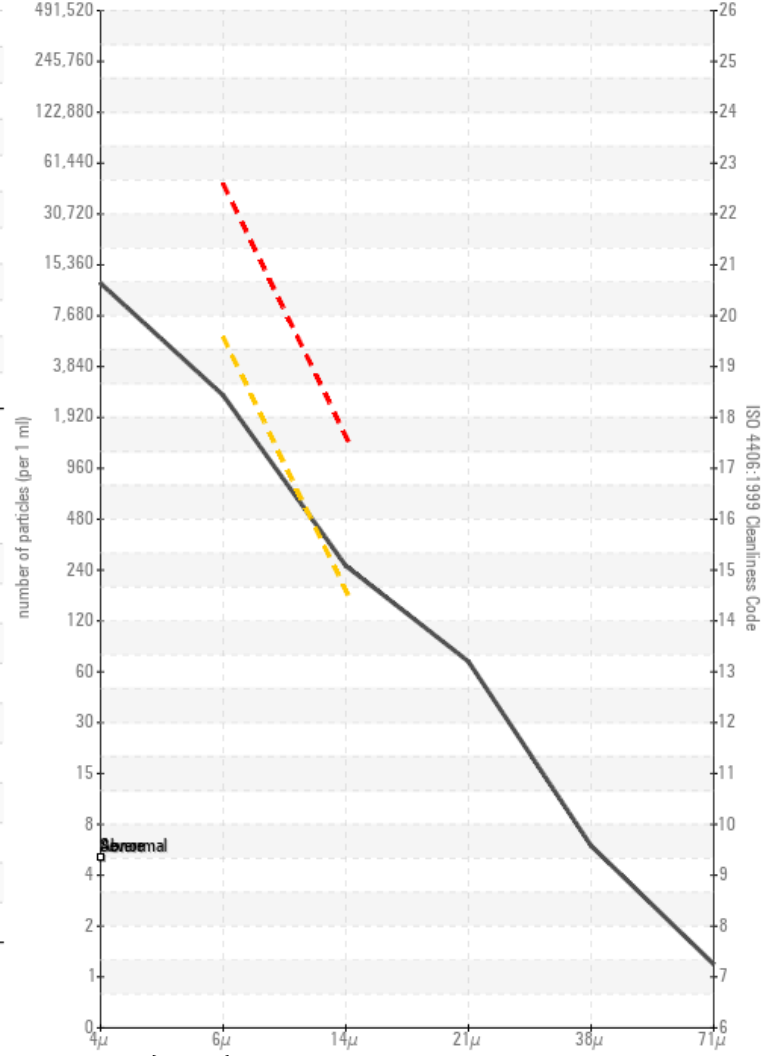
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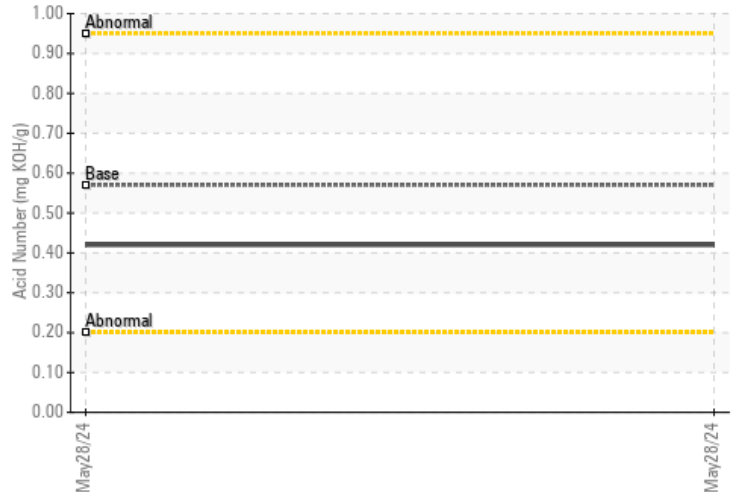
### Viscosity @ 40°C



### Particle Count



### Acid Number





# CONSTRUCTION EQUIPMENT

717334 RENTALS VOLVO A25G 752508 - FRONT AXLE



**Sample No:** VCP450737  
**Oil Type:** GEAR OIL SAE 85W140  
**Job No:** 717334 RENTALS



## SAMPLE INFORMATION

Sample Number	VCP450737	---	---	---
Sample Date	28 May 2024	---	---	---
Machine Hours	2477	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ATTENTION	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	● 88.9	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 0	---	---	---
Sodium	ppm	■ 1	---	---	---
Potassium	ppm	■ 3	---	---	---

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.



## WEAR METALS

Iron	ppm	■ 349	---	---	---
Copper	ppm	■ 66	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 2	---	---	---
Aluminum	ppm	■ 0	---	---	---
Chromium	ppm	■ 6	---	---	---
Molybdenum	ppm	■ 14	---	---	---
Nickel	ppm	■ 5	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 11	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	■ 627	---	---	---
Magnesium	ppm	■ 1	---	---	---
Zinc	ppm	■ 273	---	---	---
Phosphorus	ppm	■ 1330	---	---	---
Barium	ppm	■ 4	---	---	---
Boron	ppm	■ 246	---	---	---

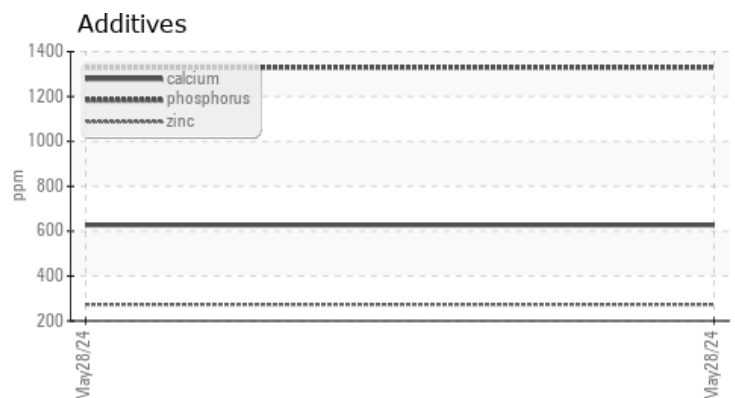
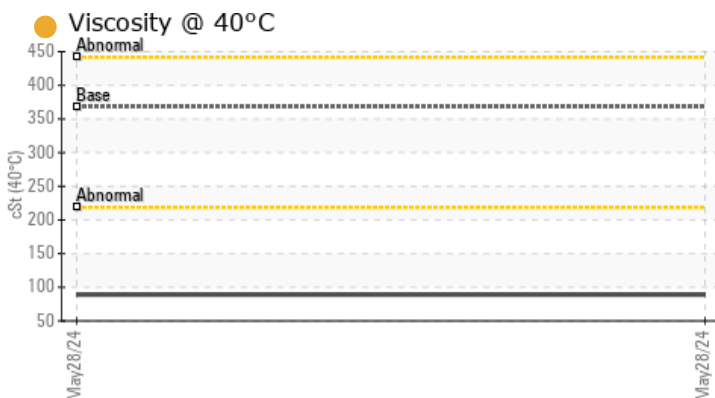
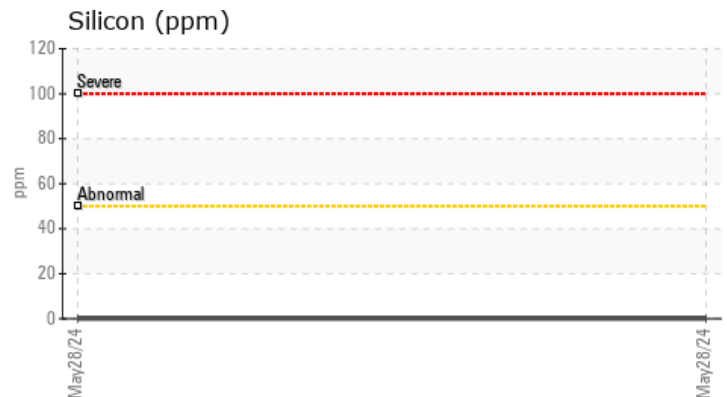
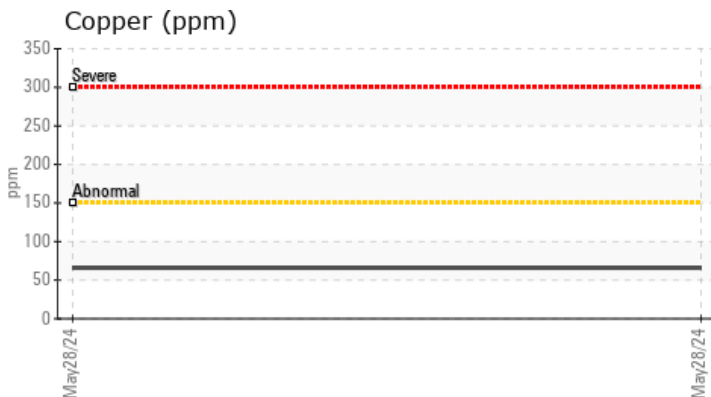
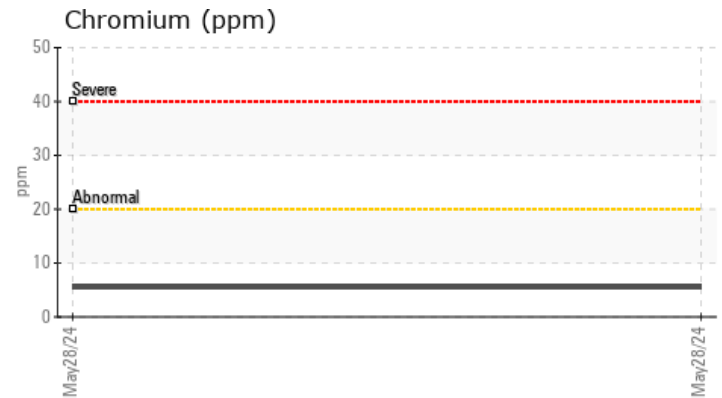
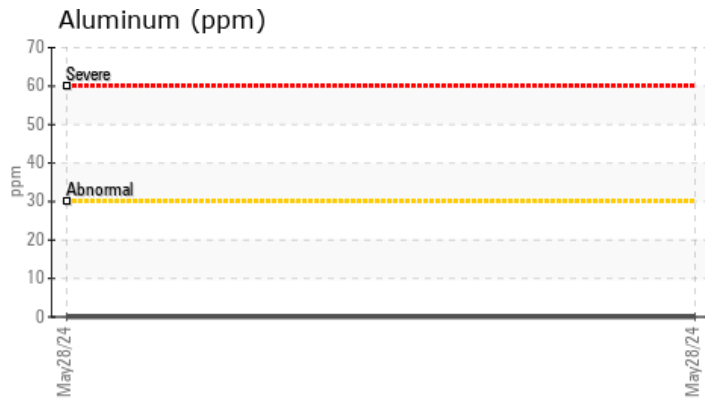
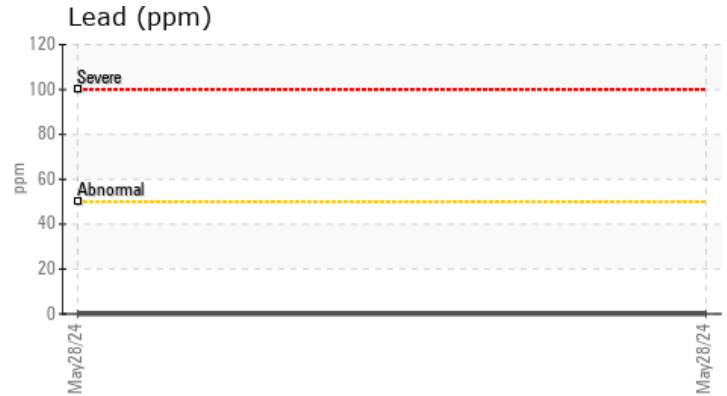
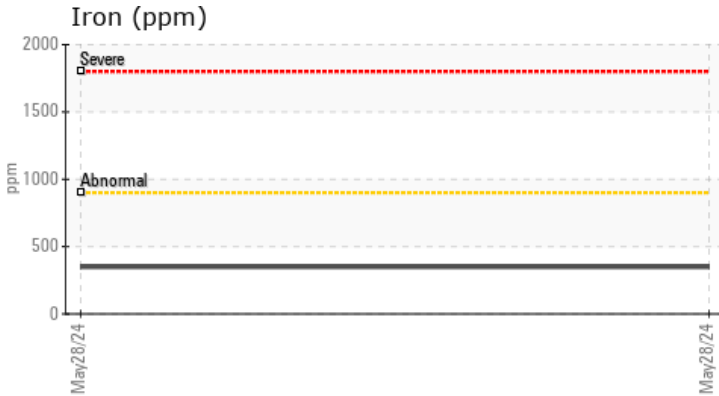
**Depot:** VOLVO0090  
**Unique No:** 11061760  
**Signed:** Don Baldrige  
**Report Date:** 06 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS







# CONSTRUCTION EQUIPMENT

717334 RENTALS VOLVO A25G 752508 - GEARBOX



**Sample No:** VCP454560  
**Oil Type:** GEAR OIL SAE 85W140  
**Job No:** 717334 RENTALS



## SAMPLE INFORMATION

Sample Number	<b>VCP454560</b>	VCP449960	---	---
Sample Date	<b>29 May 2024</b>	28 May 2024	---	---
Machine Hours	<b>2477</b>	2477	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	---	---
Sample Status	<b>ABNORMAL</b>	ABNORMAL	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	<b>84.4</b>	88.2	---	---
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## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Silicon	ppm	<b>0</b>	<1	---	---
Sodium	ppm	<b>2</b>	2	---	---
Potassium	ppm	<b>4</b>	4	---	---



## WEAR METALS

Iron	ppm	<b>393</b>	460	---	---
Copper	ppm	<b>61</b>	37	---	---
Lead	ppm	<b>0</b>	0	---	---
Tin	ppm	<b>2</b>	<1	---	---
Aluminum	ppm	<b>0</b>	0	---	---
Chromium	ppm	<b>6</b>	7	---	---
Molybdenum	ppm	<b>14</b>	15	---	---
Nickel	ppm	<b>3</b>	3	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>10</b>	12	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>892</b>	970	---	---
Magnesium	ppm	<b>2</b>	2	---	---
Zinc	ppm	<b>369</b>	397	---	---
Phosphorus	ppm	<b>1353</b>	1359	---	---
Barium	ppm	<b>4</b>	4	---	---
Boron	ppm	<b>272</b>	291	---	---

## Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. Gear wear is indicated. All other component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. Confirm oil type.

**Depot:** VOLVO0090  
**Unique No:** 11061762  
**Signed:** Don Baldrige  
**Report Date:** 06 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

