



# CONSTRUCTION EQUIPMENT

X39607 3148 - DIESEL ENGINE



**Sample No:** VCP433099  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** X39607



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## SAMPLE INFORMATION

Sample Number	VCP433099	---	---	---
Sample Date	03 Jul 2024	---	---	---
Machine Hours	7028	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---



## OIL CONDITION

Visc @ 100°C	cSt	█ 12.5	---	---	---
Base Number (BN)	mg KOH/g	█ 10.2	---	---	---
Oxidation (PA)	%	81	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Soot %	%	█ 0.2	---	---	---
Nitration (PA)	%	57	---	---	---
Sulfation (PA)	%	60	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 5	---	---	---
Sodium	ppm	█ 2	---	---	---
Potassium	ppm	█ 0	---	---	---



## WEAR METALS

Iron	ppm	█ 4	---	---	---
Copper	ppm	█ 0	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ 0	---	---	---
Molybdenum	ppm	█ 35	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 1664	---	---	---
Magnesium	ppm	█ 523	---	---	---
Zinc	ppm	█ 1192	---	---	---
Phosphorus	ppm	█ 976	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 46	---	---	---

## 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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

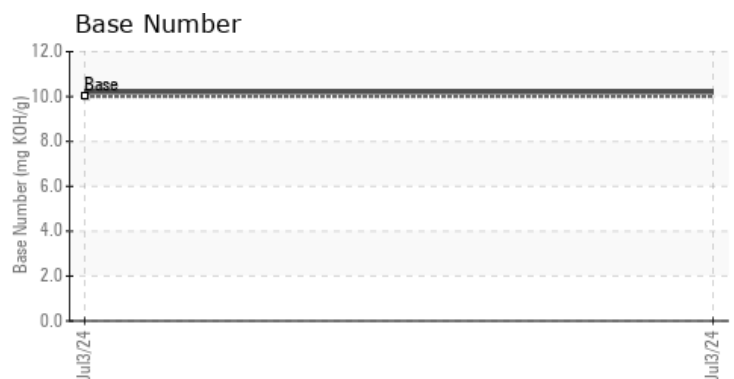
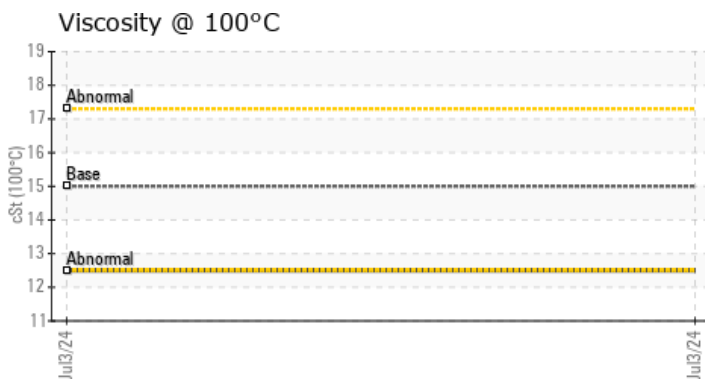
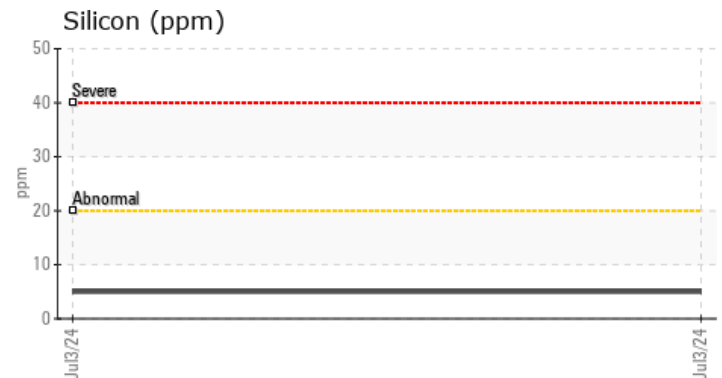
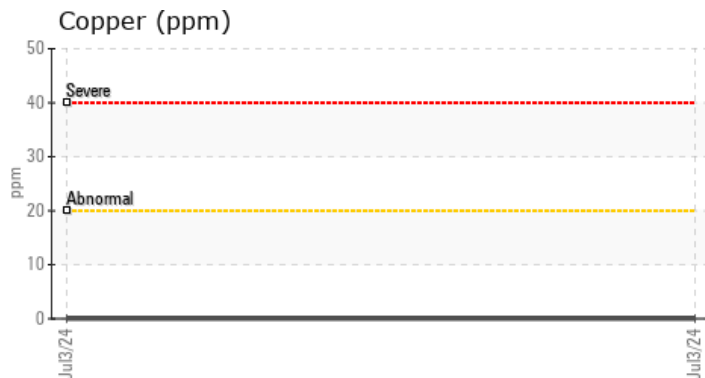
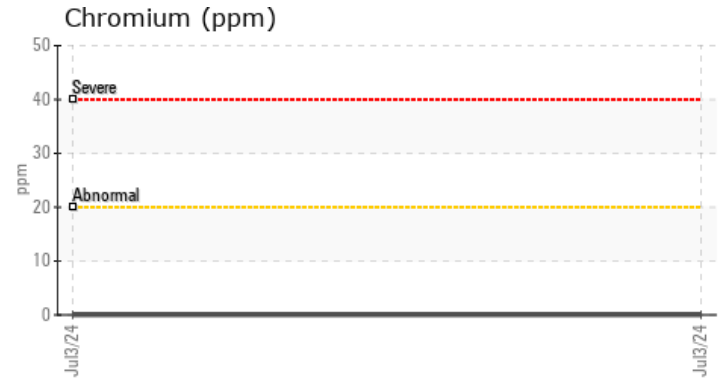
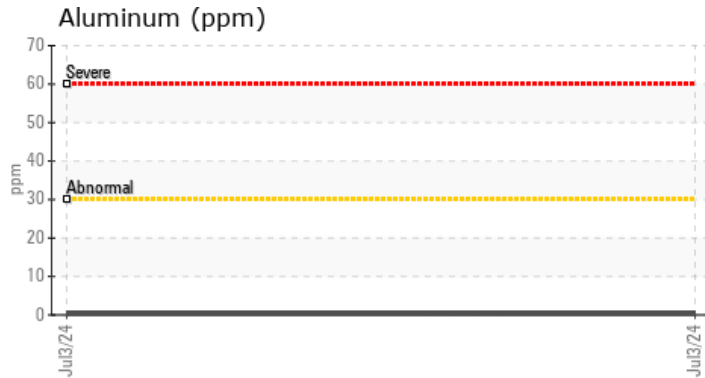
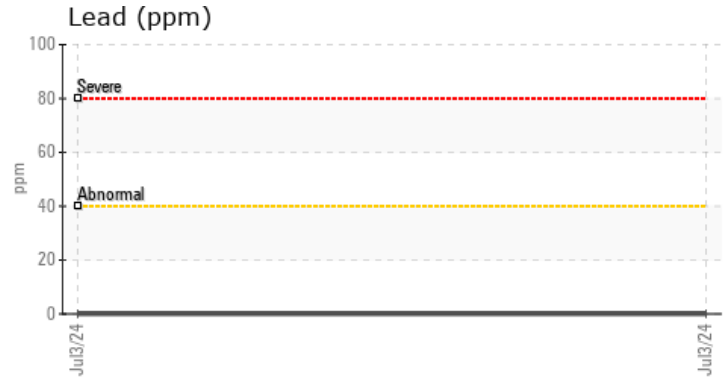
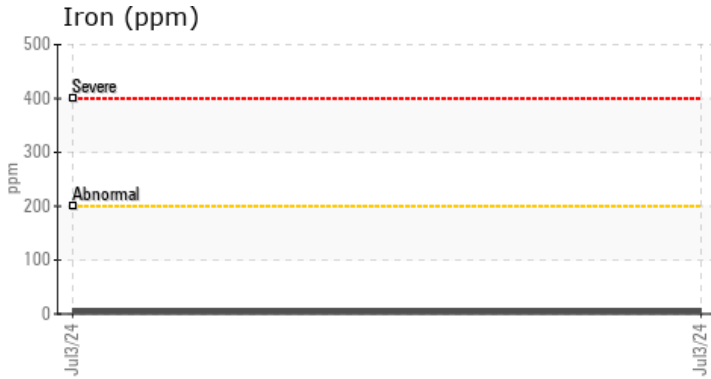
**Depot:** VOLVO6242  
**Unique No:** 11116388  
**Signed:** Wes Davis  
**Report Date:** 12 Jul 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS





# CONSTRUCTION EQUIPMENT

X39607 3148 - TRANSMISSION (AUTO)



**Sample No:** VCP400895  
**Oil Type:** DEXRON III  
**Job No:** X39607



## SAMPLE INFORMATION

Sample Number	VCP400895	---	---	---
Sample Date	03 Jul 2024	---	---	---
Machine Hours	7028	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 27.3	---	---	---
-------------	-----	--------	-----	-----	-----



## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 5	---	---	---
Potassium	ppm	█ <1	---	---	---

## Diagnosis

Resample at the next service interval to monitor. 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.



## WEAR METALS

Iron	ppm	█ 178	---	---	---
Copper	ppm	█ 6	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 5	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 95	---	---	---
Magnesium	ppm	█ 1	---	---	---
Zinc	ppm	█ 19	---	---	---
Phosphorus	ppm	█ 178	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 63	---	---	---

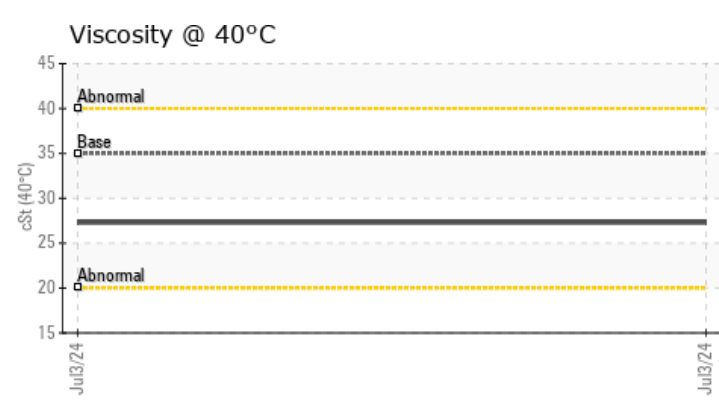
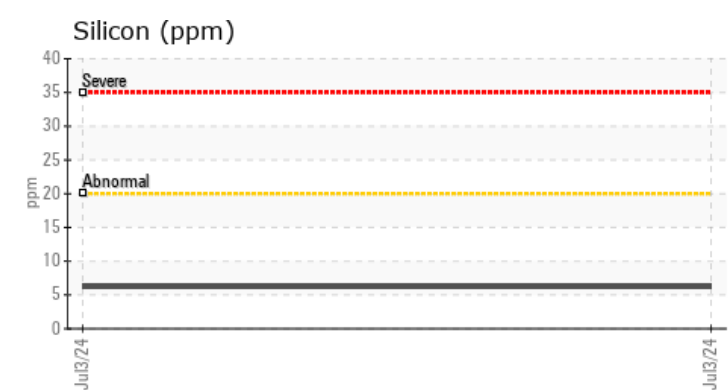
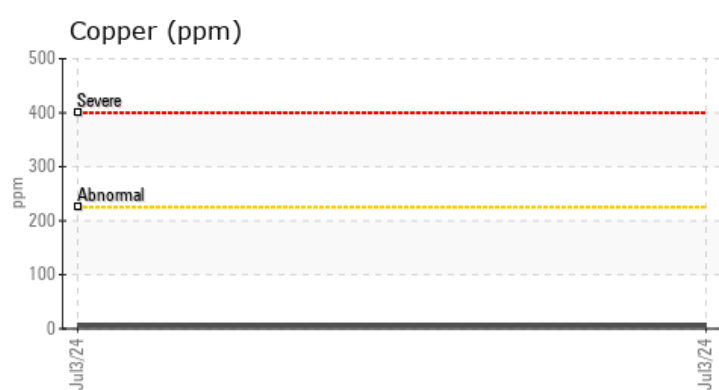
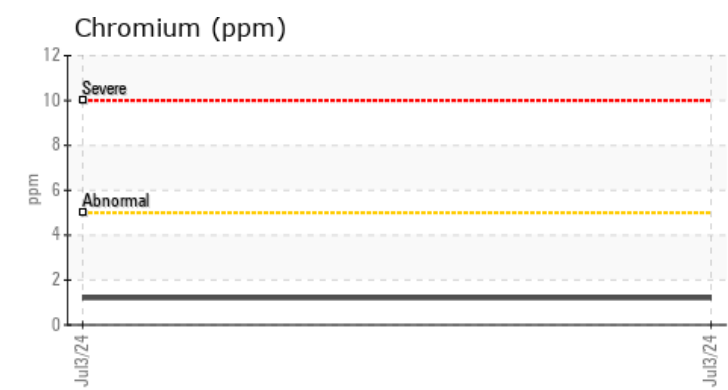
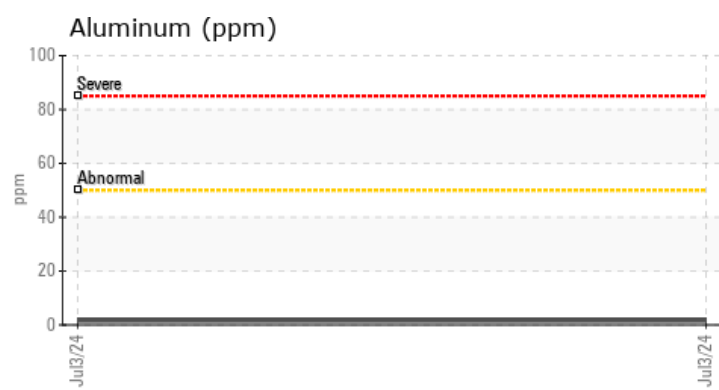
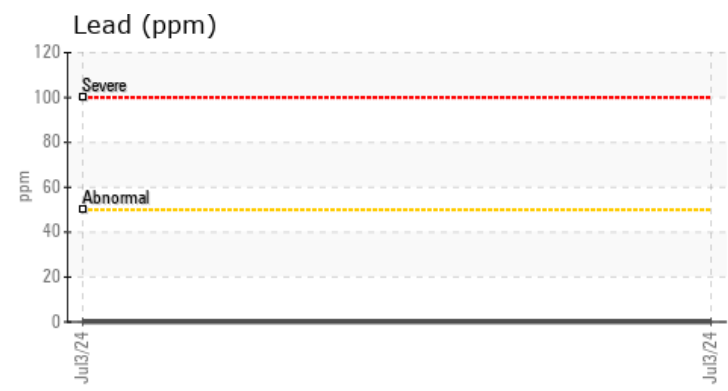
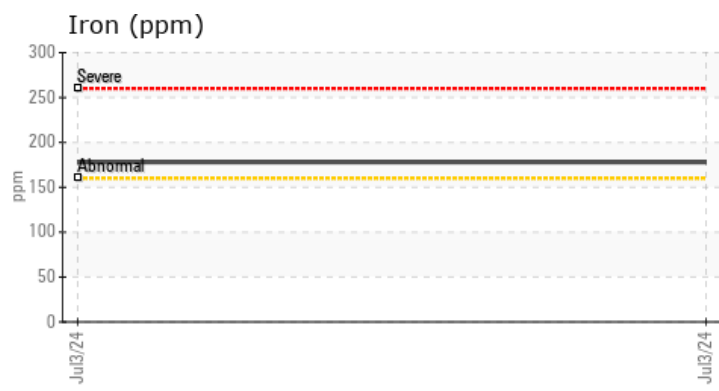
**Depot:** VOLVO6242  
**Unique No:** 1117161  
**Signed:** Don Baldrige  
**Report Date:** 13 Jul 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS





# CONSTRUCTION EQUIPMENT

## X39607 3148 - HYDRAULIC SYSTEM



**Sample No:** VCP433097  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** X39607



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### SAMPLE INFORMATION

Sample Number	VCP433097	---	---	---
Sample Date	03 Jul 2024	---	---	---
Machine Hours	7028	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---



### OIL CONDITION

Visc @ 40°C	cSt	█ 41.4	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.27	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 283350	---	---	---
Particles >6µm		▲ 176554	---	---	---
Particles >14µm		▲ 5999	---	---	---
ISO 4406:1999 (c)		25/25/20	---	---	---
Silicon	ppm	█ 4	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 0	---	---	---

### 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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	█ 6	---	---	---
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	█ 382	---	---	---
Magnesium	ppm	█ 3	---	---	---
Zinc	ppm	█ 551	---	---	---
Phosphorus	ppm	█ 430	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 7	---	---	---

**Depot:** VOLVO6242  
**Unique No:** 11116699  
**Signed:** Don Baldrige  
**Report Date:** 12 Jul 2024

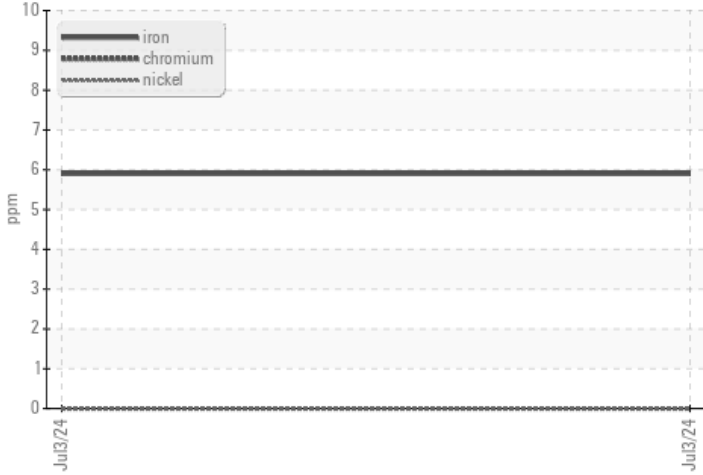


# CONSTRUCTION EQUIPMENT



## GRAPHS

### Ferrous Alloys



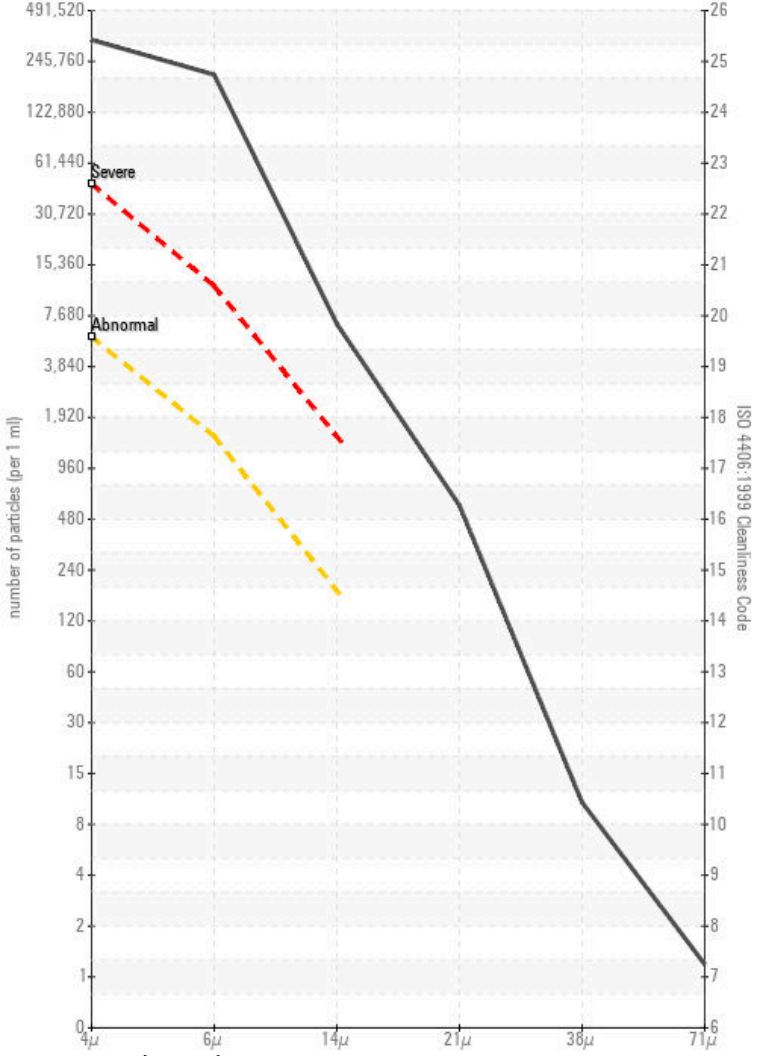
### Non-ferrous Metals



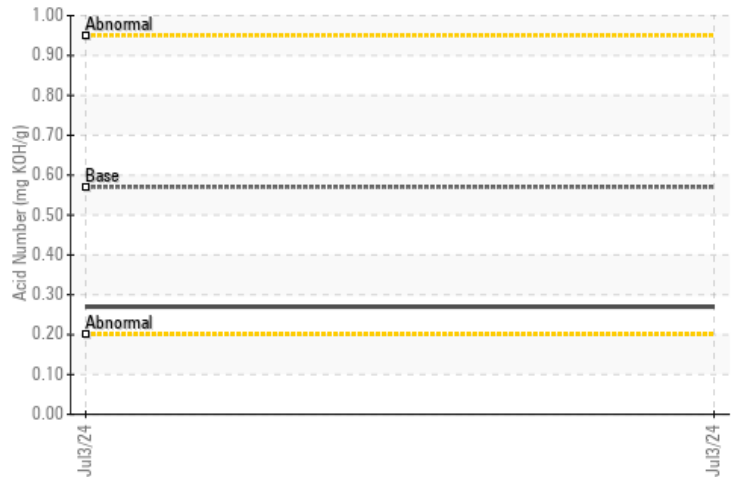
### Viscosity @ 40°C



### Particle Count



### Acid Number







# CONSTRUCTION EQUIPMENT

X39607 3148 - FRONT AXLE



**Sample No:** VCP433091  
**Oil Type:** TDH FLUID SAE 75W80  
**Job No:** X39607



## SAMPLE INFORMATION

Sample Number	VCP433091	---	---	---
Sample Date	03 Jul 2024	---	---	---
Machine Hours	7028	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	NORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	■ 50.0	---	---	---
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## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	■ 16	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 0	---	---	---

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

## WEAR METALS

Iron	ppm	■ 57	---	---	---
Copper	ppm	■ 28	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ 0	---	---	---
Aluminum	ppm	■ 1	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---

## ADDITIVES

Calcium	ppm	■ 3705	---	---	---
Magnesium	ppm	■ 16	---	---	---
Zinc	ppm	■ 1366	---	---	---
Phosphorus	ppm	■ 1156	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 113	---	---	---

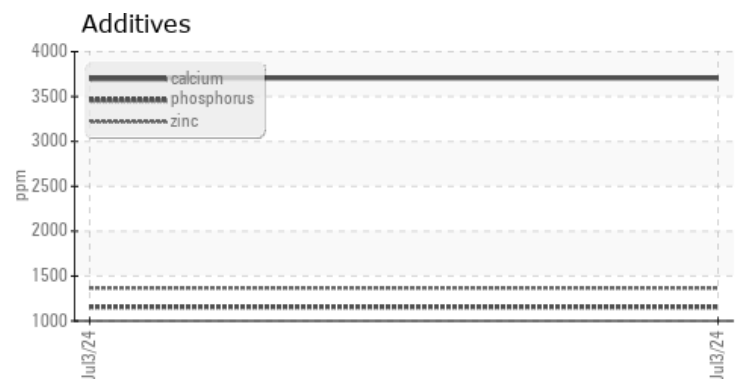
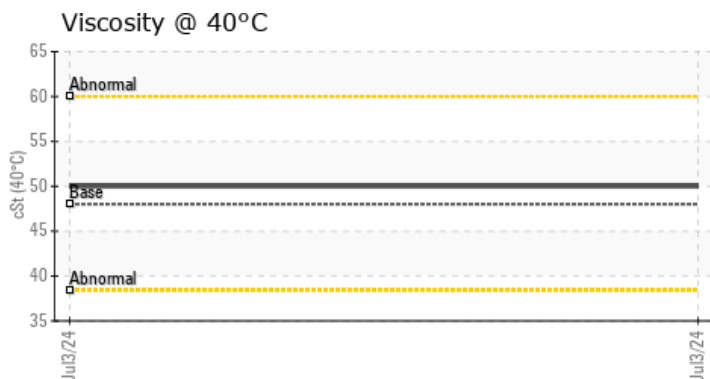
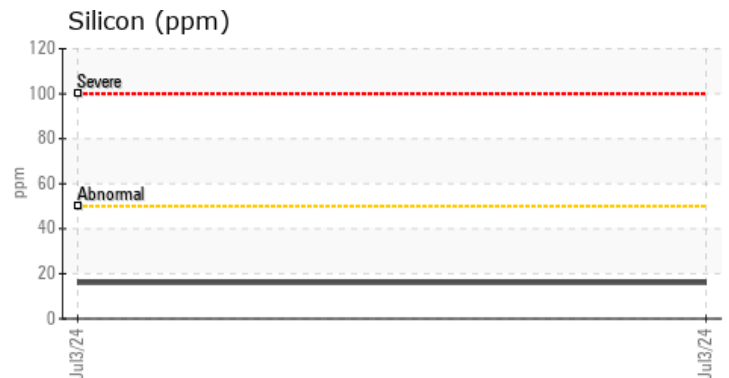
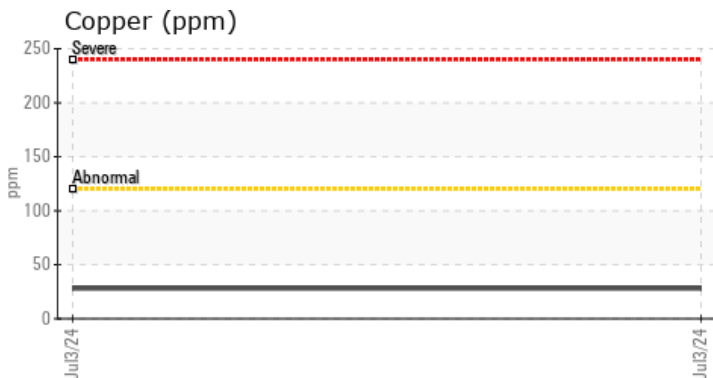
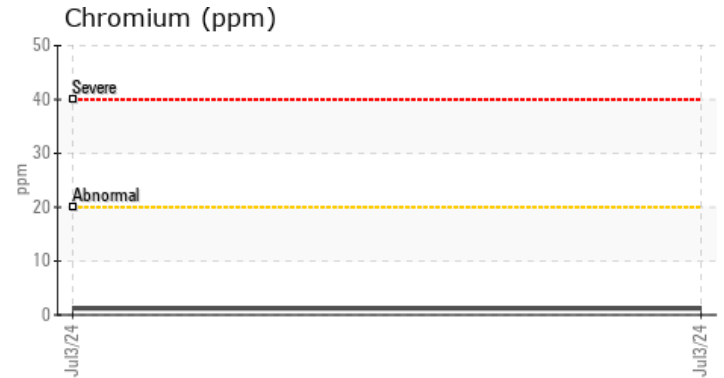
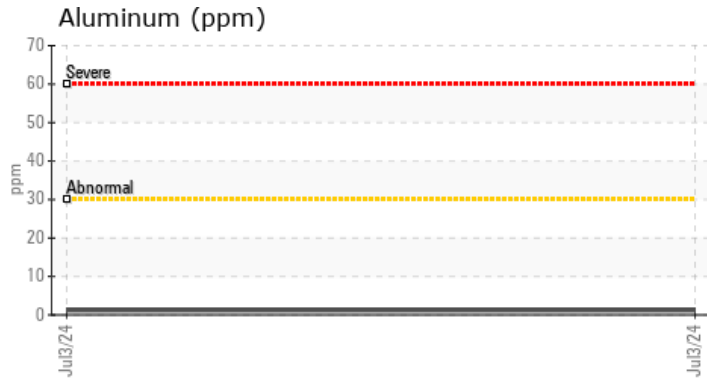
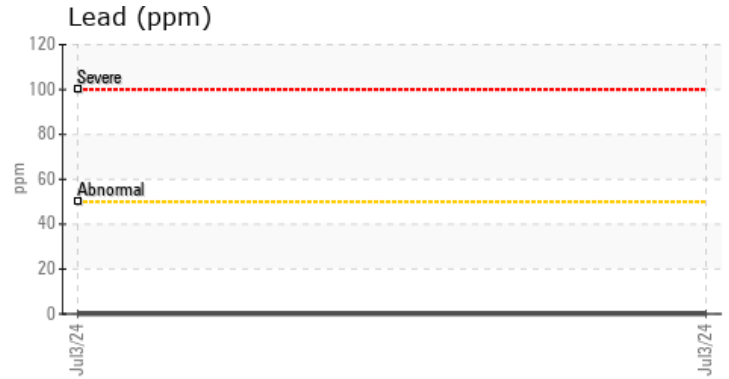
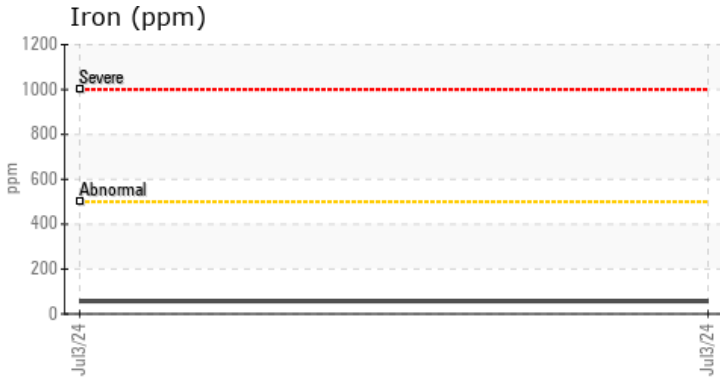
**Depot:** VOLVO6242  
**Unique No:** 11117047  
**Signed:** Don Baldrige  
**Report Date:** 13 Jul 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS







# CONSTRUCTION EQUIPMENT

X39607 3148 - REAR AXLE



**Sample No:** VCP429791  
**Oil Type:** TDH FLUID SAE 75W80  
**Job No:** X39607



## SAMPLE INFORMATION

Sample Number	VCP429791	---	---	---
Sample Date	03 Jul 2024	---	---	---
Machine Hours	7028	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	NORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 50.5	---	---	---
-------------	-----	--------	-----	-----	-----



## CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 15	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 0	---	---	---

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



## WEAR METALS

Iron	ppm	█ 20	---	---	---
Copper	ppm	█ 4	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 8	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 1	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 3385	---	---	---
Magnesium	ppm	█ 57	---	---	---
Zinc	ppm	█ 1303	---	---	---
Phosphorus	ppm	█ 1107	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 105	---	---	---

**Depot:** VOLVO6242  
**Unique No:** 11117048  
**Signed:** Don Baldrige  
**Report Date:** 13 Jul 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

