



# CONSTRUCTION EQUIPMENT

## SW35271 VOLVO EC750E 314074 - FRONT LEFT FINAL DRIVE



**Sample No:** VCP436948  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SW35271



### SAMPLE INFORMATION

Sample Number	VCP436948	---	---	---
Sample Date	23 May 2024	---	---	---
Machine Hours	3565	---	---	---
Oil Hours	3565	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

**ARNOLD MACHINERY COMPANY**  
 4323 EAST WINSLOW AVENUE  
 PHOENIX, AZ  
 US 85040  
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### OIL CONDITION

Visc @ 40°C	cSt	■ 371	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 1129	---	---	---
Sodium	ppm	■ 21	---	---	---
Potassium	ppm	■ 61	---	---	---



### WEAR METALS

Iron	ppm	▲ 2844	---	---	---
Copper	ppm	■ 6	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	● 193	---	---	---
Chromium	ppm	▲ 14	---	---	---
Molybdenum	ppm	■ 1	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ 13	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 22	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	■ 218	---	---	---
Magnesium	ppm	■ 55	---	---	---
Zinc	ppm	■ 13	---	---	---
Phosphorus	ppm	■ 947	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 169	---	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. High concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

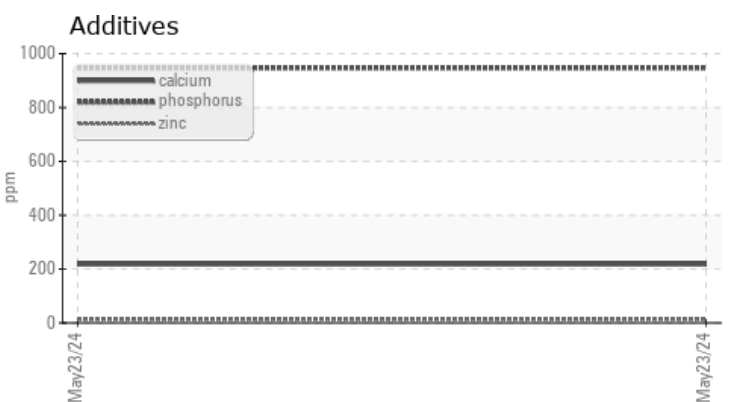
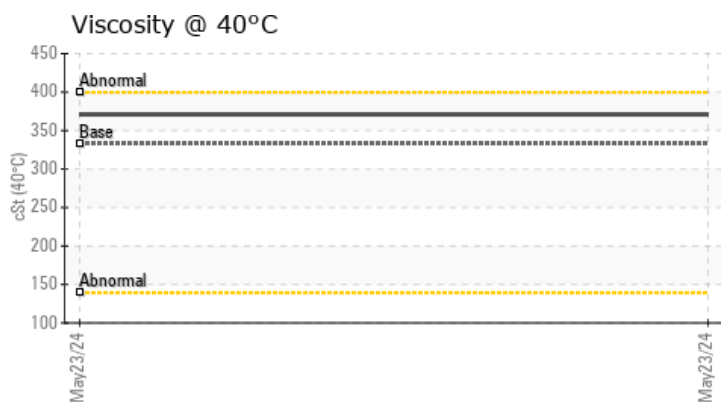
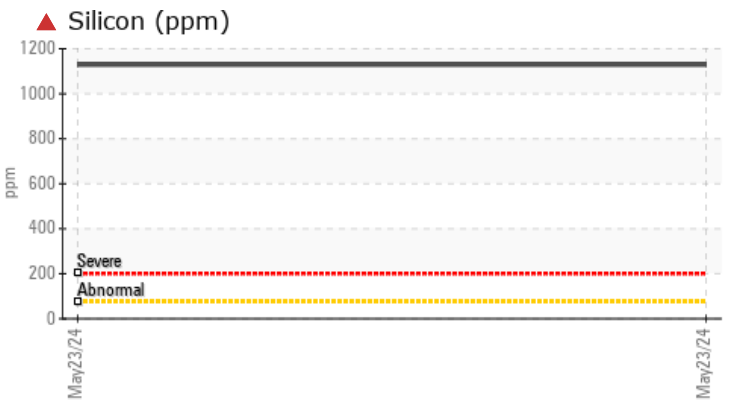
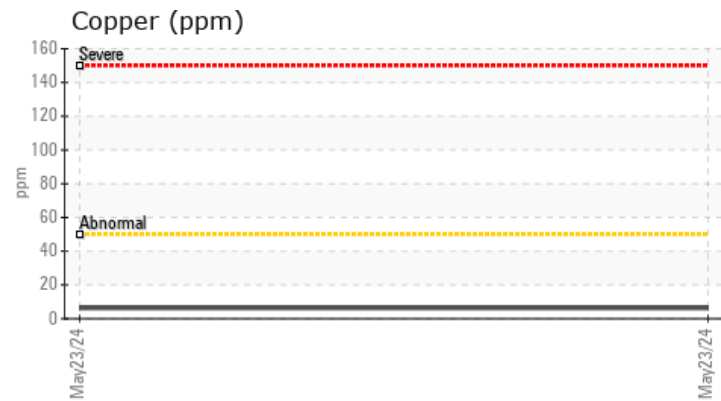
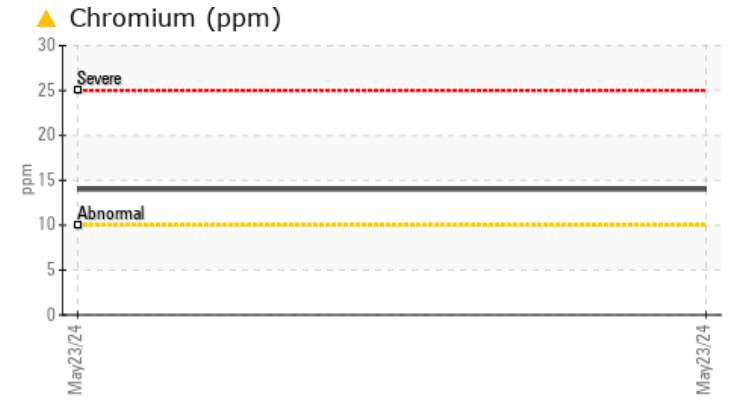
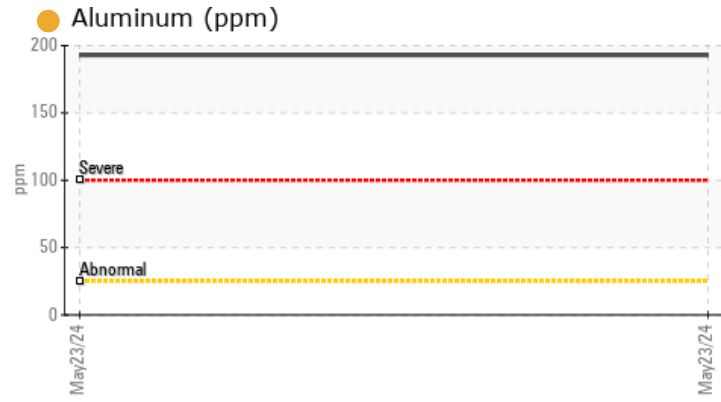
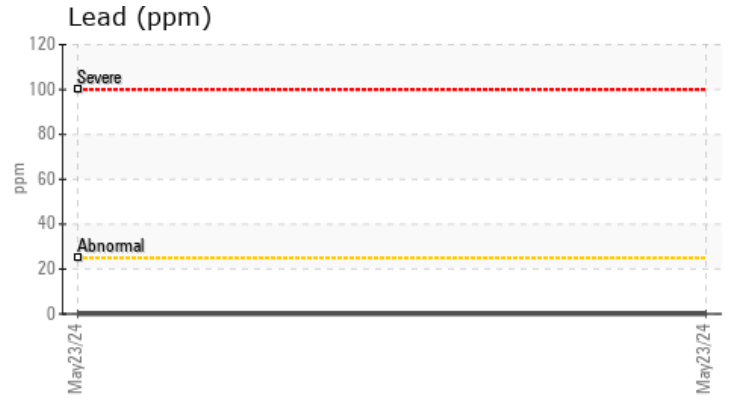
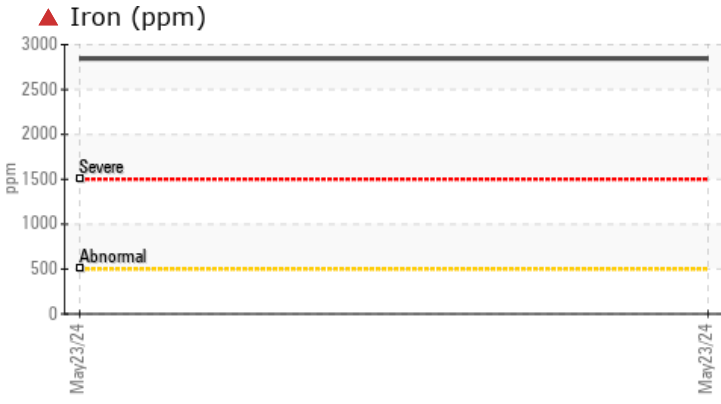
**Depot:** VOLVO6174  
**Unique No:** 11059185  
**Signed:** Don Baldrige  
**Report Date:** 04 Jun 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS





# CONSTRUCTION EQUIPMENT

## SW35271 VOLVO EC750E 314074 - FRONT RIGHT FINAL DRIVE



**Sample No:** VCP454018  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** SW35271



### SAMPLE INFORMATION

Sample Number	VCP454018	---	---	---
Sample Date	23 May 2024	---	---	---
Machine Hours	3565	---	---	---
Oil Hours	3565	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	SEVERE	---	---	---

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 F: (602)414-1904



### OIL CONDITION

Visc @ 40°C	cSt	■ 444	---	---	---
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### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 1434	---	---	---
Sodium	ppm	■ 23	---	---	---
Potassium	ppm	■ 82	---	---	---



### WEAR METALS

Iron	ppm	▲ 3159	---	---	---
Copper	ppm	■ 7	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	● 242	---	---	---
Chromium	ppm	▲ 19	---	---	---
Molybdenum	ppm	■ 2	---	---	---
Nickel	ppm	■ 2	---	---	---
Titanium	ppm	■ 16	---	---	---
Silver	ppm	1	---	---	---
Manganese	ppm	■ 24	---	---	---
Vanadium	ppm	1	---	---	---



### ADDITIVES

Calcium	ppm	■ 339	---	---	---
Magnesium	ppm	■ 54	---	---	---
Zinc	ppm	■ 5	---	---	---
Phosphorus	ppm	■ 1013	---	---	---
Barium	ppm	■ 2	---	---	---
Boron	ppm	■ 161	---	---	---

### Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. High concentration of visible metal present. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

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**Unique No:** 11059184  
**Signed:** Don Baldrige  
**Report Date:** 04 Jun 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

