



# CONSTRUCTION EQUIPMENT

## SW1018499 VOLVO EC250DL 210257 - HYDRAULIC SYSTEM



**Sample No:** VCP397942

**Oil Type:** {unknown}

**Job No:** SW1018499



### SAMPLE INFORMATION

Sample Number	VCP397942	---	---	---
Sample Date	03 May 2023	---	---	---
Machine Hours	5498	---	---	---
Oil Hours	0	---	---	---
Oil Changed	N/A	---	---	---
Sample Status	ABNORMAL	---	---	---

### ARNOLD MACHINERY COMPANY

4323 EAST WINSLOW AVENUE  
PHOENIX, AZ  
US 85040

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### OIL CONDITION

Visc @ 40°C	cSt	■ 48.5	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.76	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 87	---	---	---
Sodium	ppm	■ 7	---	---	---
Potassium	ppm	■ 4	---	---	---



### WEAR METALS

Iron	ppm	▲ 75	---	---	---
Copper	ppm	■ 19	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	● 28	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	1	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	2	---	---	---
Vanadium	ppm	0	---	---	---



### ADDITIVES

Calcium	ppm	2360	---	---	---
Magnesium	ppm	50	---	---	---
Zinc	ppm	1130	---	---	---
Phosphorus	ppm	870	---	---	---
Barium	ppm	0	---	---	---
Boron	ppm	74	---	---	---

### Diagnosis

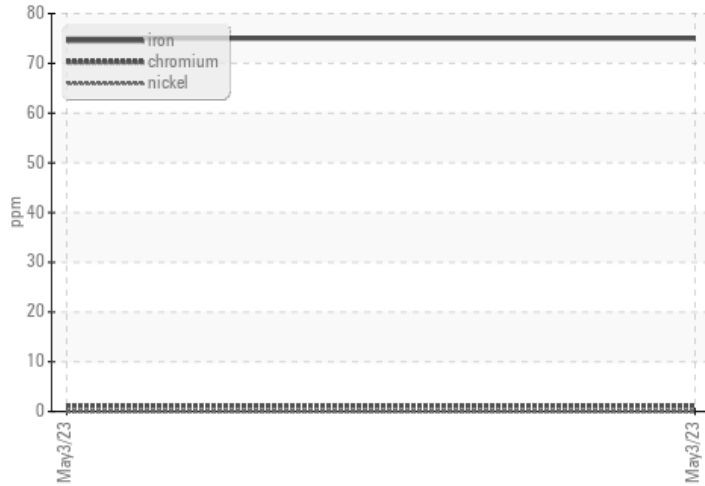
We advise that you check all areas where dirt can enter the system. We recommend you service the filters on this component. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. We were unable to perform a particle count due to a high concentration of particles present in this sample. The iron level is abnormal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. High concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oils additive package is suitable for further service.

**Depot:** VOLVO6174  
**Unique No:** 10471138  
**Signed:** Jonathan Hester  
**Report Date:** 18 May 2023

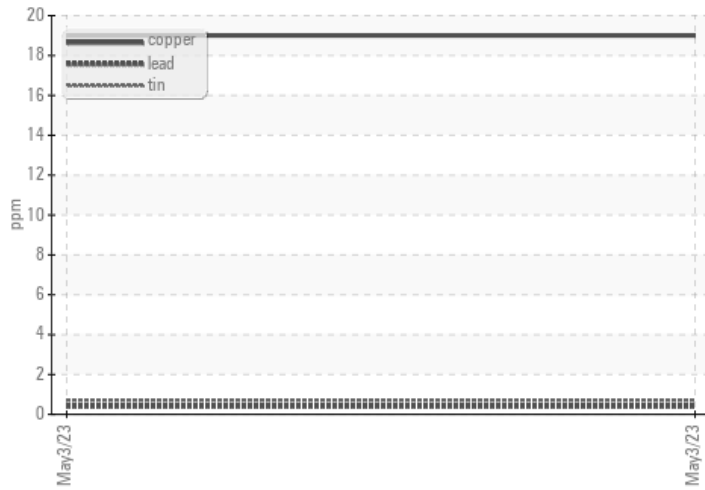


## GRAPHS

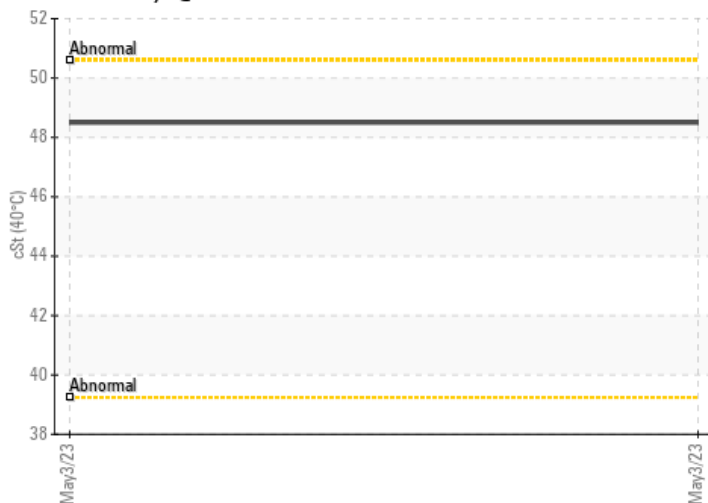
### ▲ Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

