



# CONSTRUCTION EQUIPMENT

## 12829 VOLVO L180H 4055 - HYDRAULIC SYSTEM



**Sample No:** VCP442480  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 12829



**536 - ASCENDUM MACHINERY INC - CHATTANOOGA**  
 7829 LEE HWY  
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 US 37421  
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### SAMPLE INFORMATION

Sample Number	VCP442480	---	---	---
Sample Date	09 May 2024	---	---	---
Machine Hours	8421	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



### OIL CONDITION

Visc @ 40°C	cSt	■ 38.0	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.32	---	---	---



### CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		■ 9668	---	---	---
Particles >6µm		■ 424	---	---	---
Particles >14µm		■ 21	---	---	---
ISO 4406:1999 (c)		20/16/12	---	---	---
Silicon	ppm	■ 7	---	---	---
Sodium	ppm	■ 2	---	---	---
Potassium	ppm	■ 2	---	---	---



### WEAR METALS

Iron	ppm	■ 18	---	---	---
Copper	ppm	■ 8	---	---	---
Lead	ppm	■ 3	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ 8	---	---	---
Chromium	ppm	▲ 28	---	---	---
Molybdenum	ppm	■ <1	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	<1	---	---	---
Manganese	ppm	■ <1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	■ 69	---	---	---
Magnesium	ppm	■ 2	---	---	---
Zinc	ppm	■ 446	---	---	---
Phosphorus	ppm	■ 362	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

### Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The iron level is abnormal. All other component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

**Depot:** VOLVO0117  
**Unique No:** 11031419  
**Signed:** Don Baldrige  
**Report Date:** 17 May 2024



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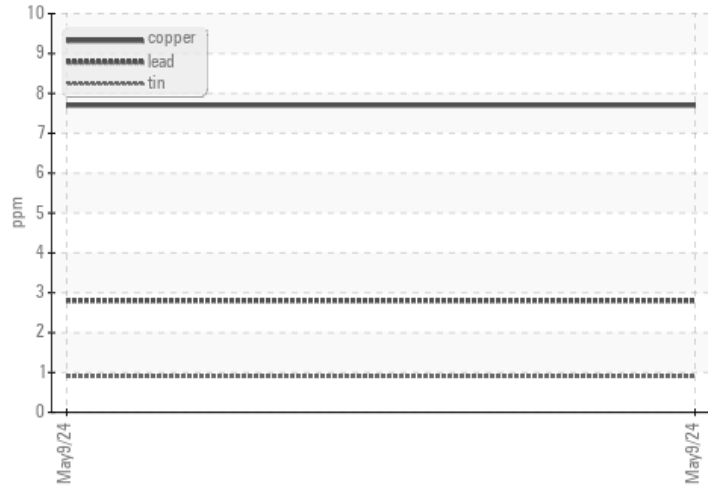


## GRAPHS

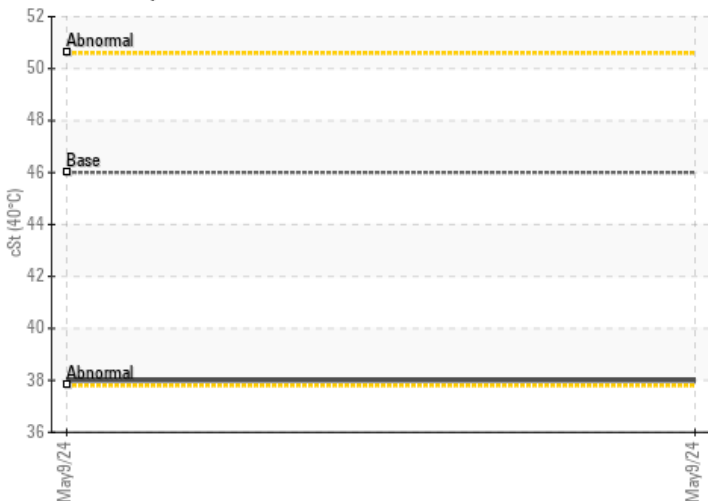
### ▲ Ferrous Alloys



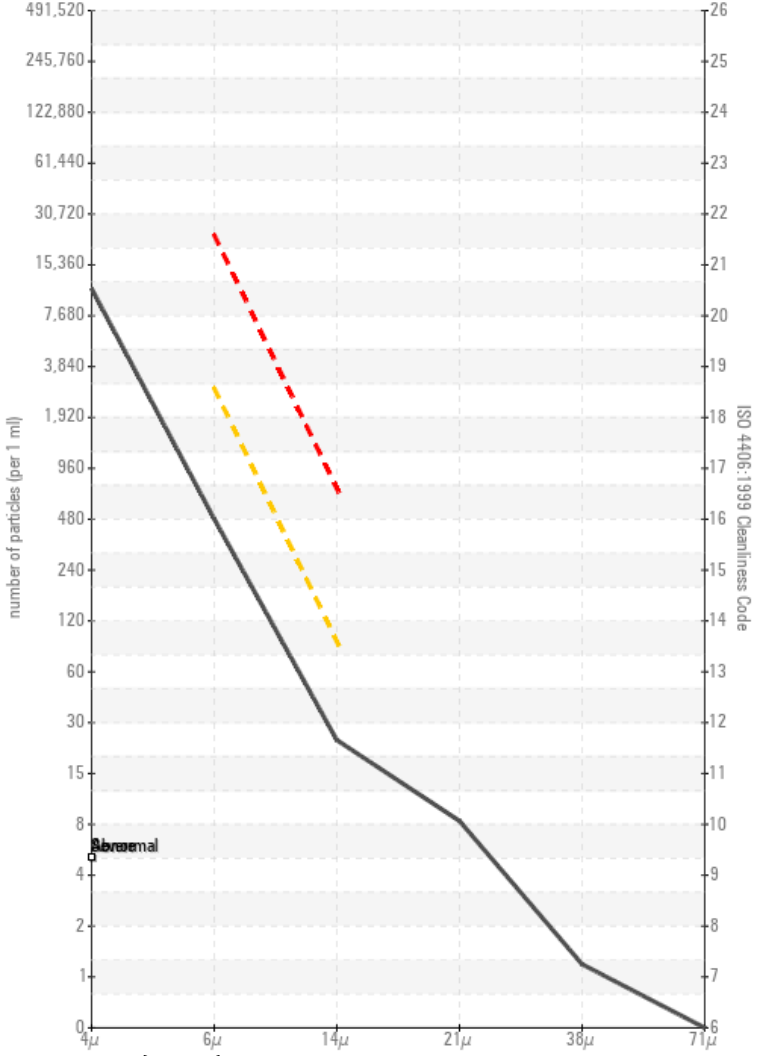
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

