



# CONSTRUCTION EQUIPMENT

## 23629 VOLVO EC380EL 314027 - HYDRAULIC SYSTEM



**Sample No:** VCP420873  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 23629



**218 - ASCENDUM MACHINERY INC - N. CHARLESTON**  
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### SAMPLE INFORMATION

Sample Number	VCP420873	---	---	---
Sample Date	12 Jul 2023	---	---	---
Machine Hours	6393	---	---	---
Oil Hours	4000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---



### OIL CONDITION

Visc @ 40°C	cSt	█ 47.0	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.56	---	---	---



### CONTAMINATION

Silicon	ppm	█ 6	---	---	---
Sodium	ppm	█ 1	---	---	---
Potassium	ppm	█ 0	---	---	---



### WEAR METALS

Iron	ppm	█ 15	---	---	---
Copper	ppm	█ 19	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ <1	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	<1	---	---	---



### ADDITIVES

Calcium	ppm	█ 291	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 571	---	---	---
Phosphorus	ppm	█ 478	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

### Diagnosis

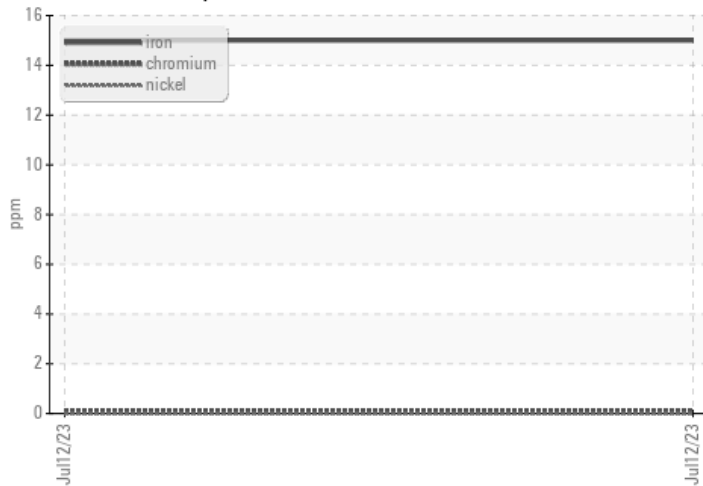
Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

**Depot:** VOLVO3387  
**Unique No:** 10562574  
**Signed:** Angela Borella  
**Report Date:** 19 Jul 2023

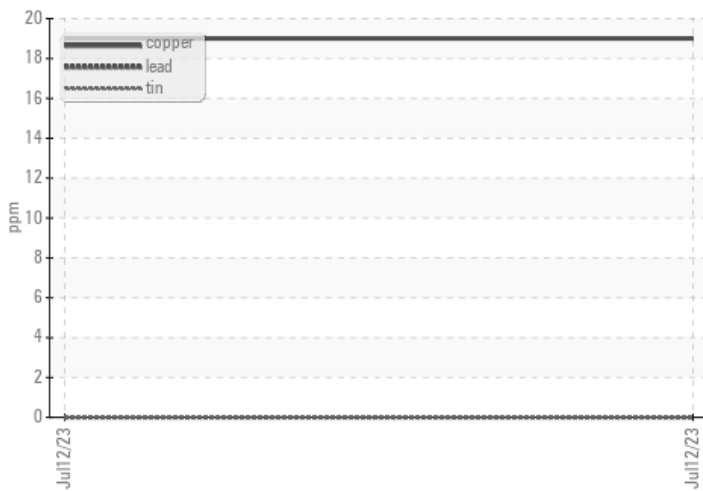


## GRAPHS

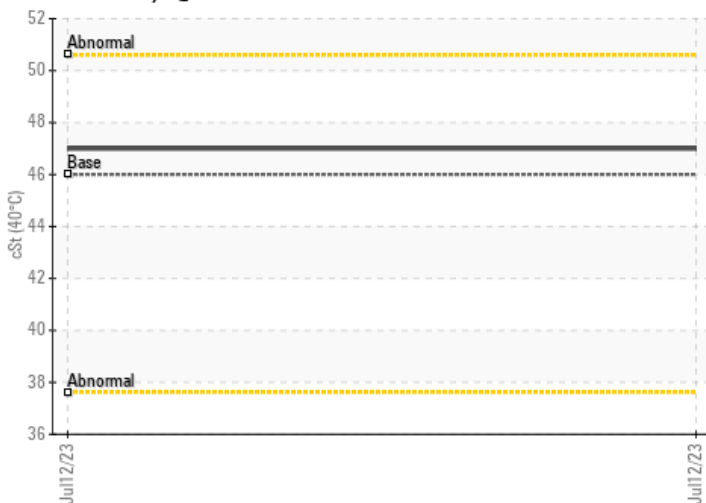
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

