



# CONSTRUCTION EQUIPMENT

716771 HILLSBOROUGH VOLVO EW160E 323446 - HYDRAULIC SYSTEM



**Sample No:** VCP451488  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 716771 HILLSBOROUGH



## SAMPLE INFORMATION

Sample Number	VCP451488	---	---	---
Sample Date	23 May 2024	---	---	---
Machine Hours	8720	---	---	---
Oil Hours	4000	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

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## OIL CONDITION

Visc @ 40°C	cSt	█ 40.3	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.71	---	---	---



## CONTAMINATION

Water	%	NEG	---	---	---
Particles >4µm		▲ 10061	---	---	---
Particles >6µm		● 1542	---	---	---
Particles >14µm		█ 27	---	---	---
ISO 4406:1999 (c)		21/18/12	---	---	---
Silicon	ppm	█ 7	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 2	---	---	---

## Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



## WEAR METALS

Iron	ppm	█ 19	---	---	---
Copper	ppm	█ 46	---	---	---
Lead	ppm	█ 1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 0	---	---	---
Vanadium	ppm	0	---	---	---



## ADDITIVES

Calcium	ppm	█ 153	---	---	---
Magnesium	ppm	█ 2	---	---	---
Zinc	ppm	█ 590	---	---	---
Phosphorus	ppm	█ 446	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

**Depot:** VOLVO0093  
**Unique No:** 11087454  
**Signed:** Wes Davis  
**Report Date:** 20 Jun 2024

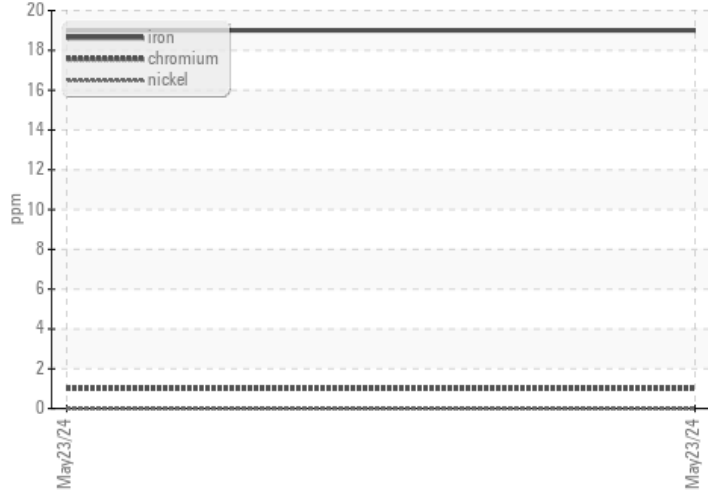


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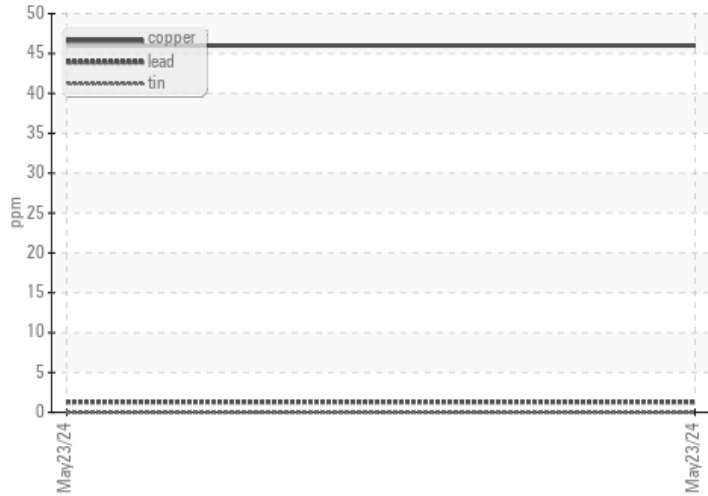


## GRAPHS

### Ferrous Alloys



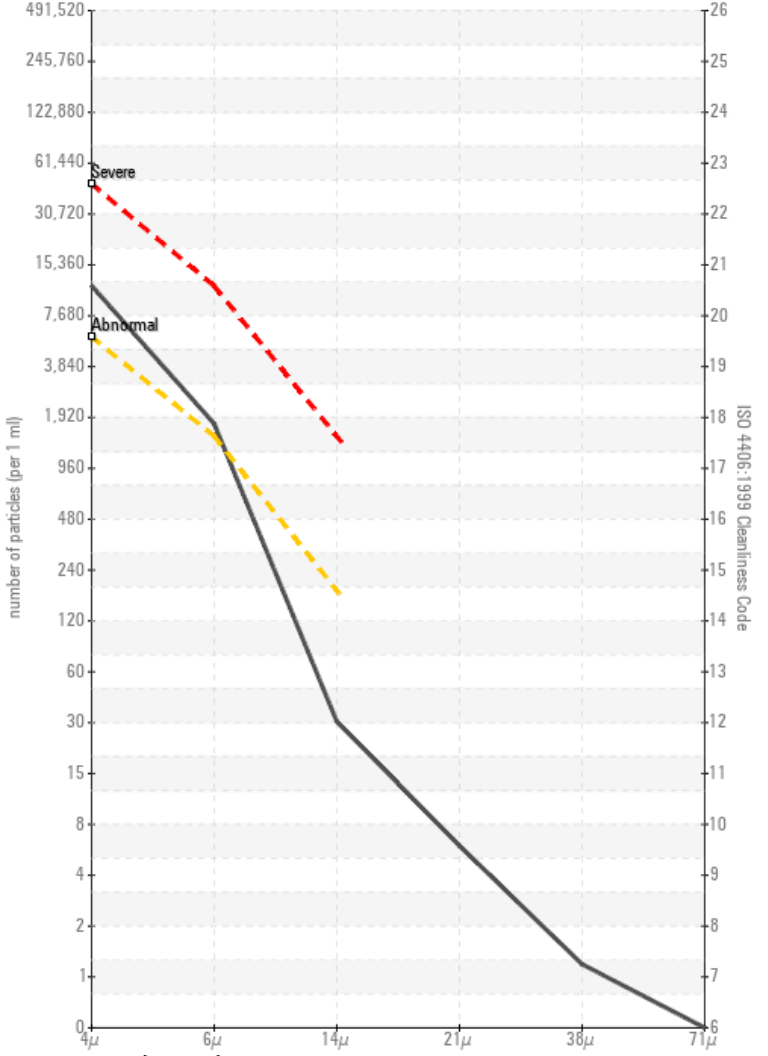
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

