



# CONSTRUCTION EQUIPMENT

WILLCO VOLVO ECR40D 15163 - HYDRAULIC SYSTEM



**Sample No:** VCP415601  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** WILLCO



## SAMPLE INFORMATION

Sample Number	VCP415601	---	---	---
Sample Date	26 Jun 2023	---	---	---
Machine Hours	668	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Chngd	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC  
 8418 PALM RIVER ROAD  
 TAMPA, FL  
 US 33619  
 Contact: KENNY HANEY  
 khaney@flaglerce.com  
 T: (813)630-0077  
 F: (813)630-2233



## OIL CONDITION

Visc @ 40°C	cSt	■ 38.2	---	---	---
Acid Number (AN)	mg KOH/g	■ 0.35	---	---	---



## CONTAMINATION

Particles >4µm		▲ 81290	---	---	---
Particles >6µm		▲ 10012	---	---	---
Particles >14µm		■ 54	---	---	---
ISO 4406:1999 (c)		24/21/13	---	---	---
Silicon	ppm	■ 2	---	---	---
Sodium	ppm	■ <1	---	---	---
Potassium	ppm	■ 0	---	---	---

## 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	■ 6	---	---	---
Copper	ppm	■ 30	---	---	---
Lead	ppm	■ 0	---	---	---
Tin	ppm	■ <1	---	---	---
Aluminum	ppm	■ <1	---	---	---
Chromium	ppm	■ 0	---	---	---
Molybdenum	ppm	■ 0	---	---	---
Nickel	ppm	■ 0	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	■ 0	---	---	---
Vanadium	ppm	<1	---	---	---



## ADDITIVES

Calcium	ppm	■ 31	---	---	---
Magnesium	ppm	■ 2	---	---	---
Zinc	ppm	■ 346	---	---	---
Phosphorus	ppm	■ 282	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 0	---	---	---

**Depot:** VOLVO0093  
**Unique No:** 10551880  
**Signed:** Wes Davis  
**Report Date:** 13 Jul 2023

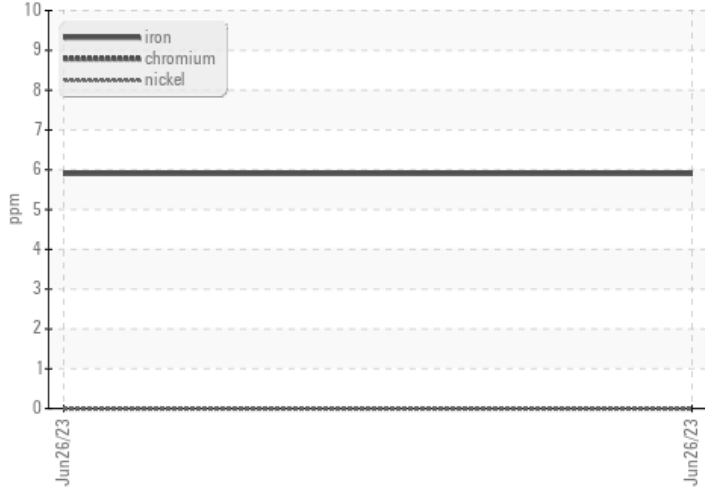


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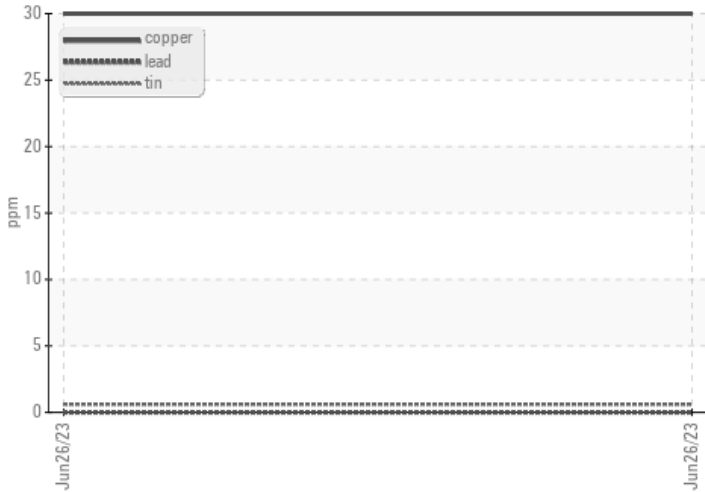


## GRAPHS

### Ferrous Alloys



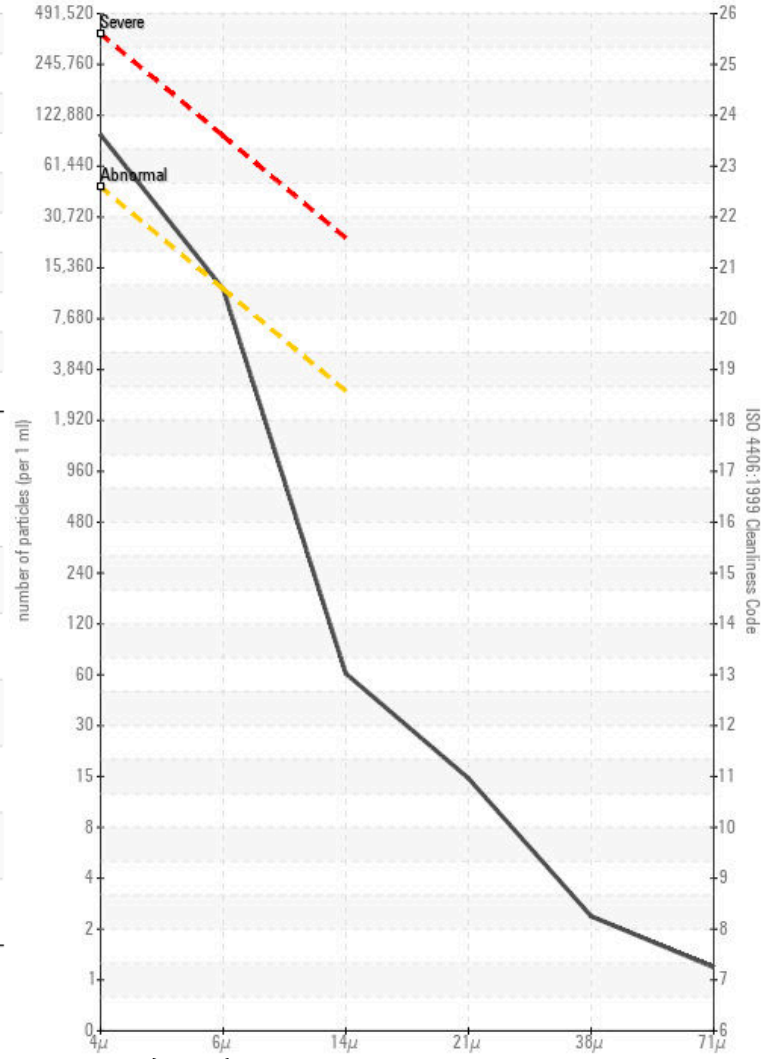
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

