



# CONSTRUCTION EQUIPMENT

SWA395633 THREE LAKE VOLVO 310086 - HYDRAULIC SYSTEM



**Sample No:** VCP433190  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWA395633 THREE LAKE



## SAMPLE INFORMATION

Sample Number	VCP433190	---	---	---
Sample Date	23 Oct 2023	---	---	---
Machine Hours	936	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Not Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

### ALTA EQUIPMENT COMPANY

5210 REESE ROAD  
 DAVIE, FL  
 US 33314

Contact: N. FACEY  
 nfacey@altaequipfl.com  
 T: (954)581-4744  
 F: (954)583-0318



## OIL CONDITION

Visc @ 40°C	cSt	█ 41.0	---	---	---
Acid Number (AN)	mg KOH/g	█ 0.43	---	---	---



## CONTAMINATION

Particles >4µm		▲ 11470	---	---	---
Particles >6µm		▲ 3730	---	---	---
Particles >14µm		▲ 359	---	---	---
ISO 4406:1999 (c)		21/19/16	---	---	---
Silicon	ppm	█ 3	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 0	---	---	---



## WEAR METALS

Iron	ppm	█ 2	---	---	---
Copper	ppm	█ 11	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	█ <1	---	---	---
Chromium	ppm	█ <1	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	█ 0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ <1	---	---	---
Vanadium	ppm	█ 0	---	---	---



## ADDITIVES

Calcium	ppm	█ 64	---	---	---
Magnesium	ppm	█ 4	---	---	---
Zinc	ppm	█ 526	---	---	---
Phosphorus	ppm	█ 403	---	---	---
Barium	ppm	█ 0	---	---	---
Boron	ppm	█ 0	---	---	---

## Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. The fluid was not specified, however, a fluid match indicates that this fluid is (GENERIC) AW HYDRAULIC OIL ISO 46. Please confirm. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 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.

**Depot:** VOLVO0095  
**Unique No:** 10712939  
**Signed:** Wes Davis  
**Report Date:** 27 Oct 2023

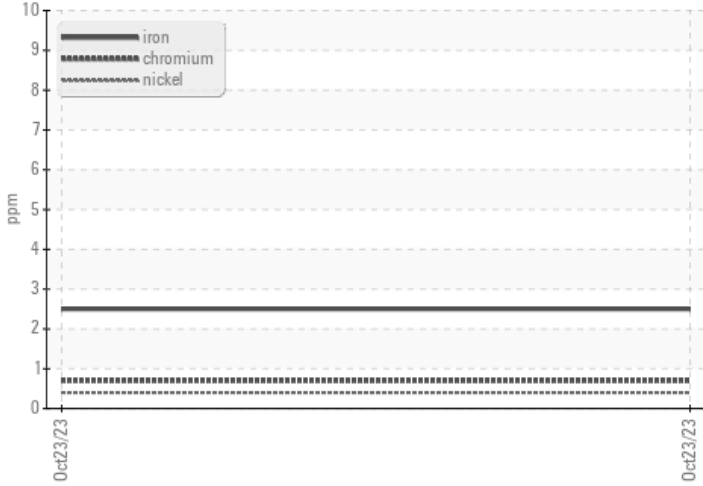


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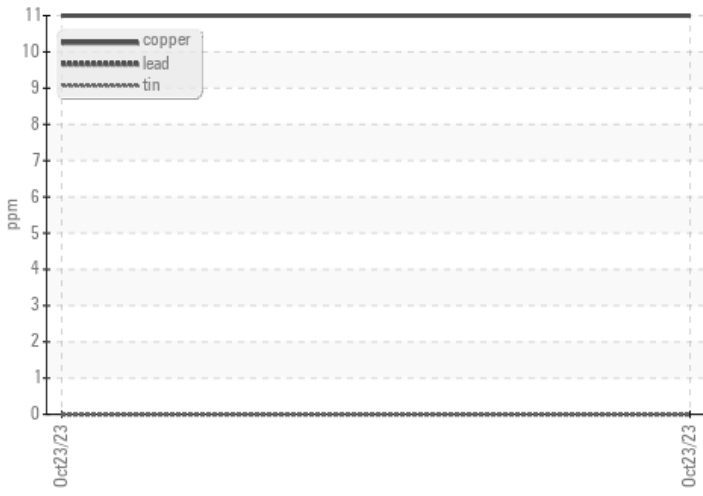


## GRAPHS

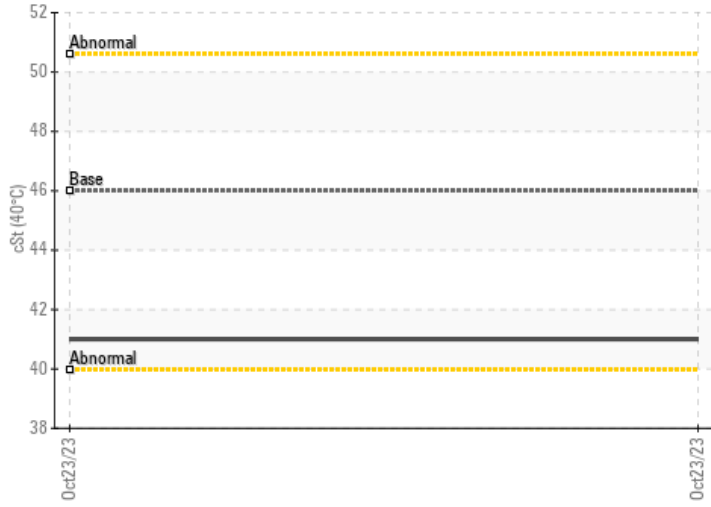
Ferrous Alloys



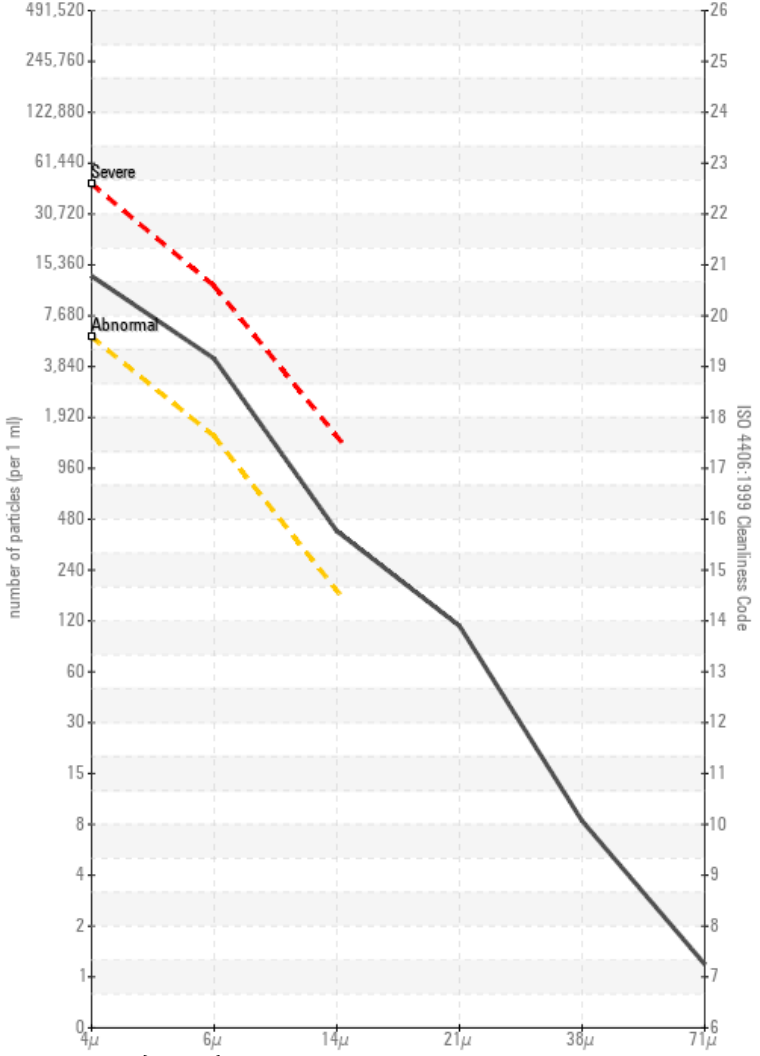
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

