



# CONSTRUCTION EQUIPMENT

645830 ATLAS ORG VOLVO L70H 623711 - HYDRAULIC SYSTEM



**Sample No:** VCP440740  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 645830 ATLAS ORG



## SAMPLE INFORMATION

Sample Number	VCP440740	VCP415773	---	---
Sample Date	06 Dec 2023	29 Jun 2023	---	---
Machine Hours	9083	8029	---	---
Oil Hours	0	0	---	---
Oil Changed	Not Chngd	Changed	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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## OIL CONDITION

Visc @ 40°C	cSt	█ 44.2	█ 44.7	---	---
Acid Number (AN)	mg KOH/g	█ 0.41	█ 0.51	---	---



## CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		---	▲ 9176	---	---
Particles >6µm		---	█ 629	---	---
Particles >14µm		---	█ 44	---	---
ISO 4406:1999 (c)		---	20/16/13	---	---
Silicon	ppm	█ 2	█ 2	---	---
Sodium	ppm	█ <1	█ 2	---	---
Potassium	ppm	█ 0	█ 1	---	---

## Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. High concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



## WEAR METALS

Iron	ppm	█ 6	█ 10	---	---
Copper	ppm	█ 1	█ 1	---	---
Lead	ppm	█ <1	█ 0	---	---
Tin	ppm	█ 0	█ <1	---	---
Aluminum	ppm	█ 0	█ <1	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 3	█ 4	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	<1	---	---



## ADDITIVES

Calcium	ppm	█ 194	█ 246	---	---
Magnesium	ppm	█ 8	█ 25	---	---
Zinc	ppm	█ 485	█ 531	---	---
Phosphorus	ppm	█ 425	█ 464	---	---
Barium	ppm	█ 0	█ <1	---	---
Boron	ppm	█ 10	█ 15	---	---

**Depot:** VOLVO0096  
**Unique No:** 10783235  
**Signed:** Don Baldrige  
**Report Date:** 17 Dec 2023

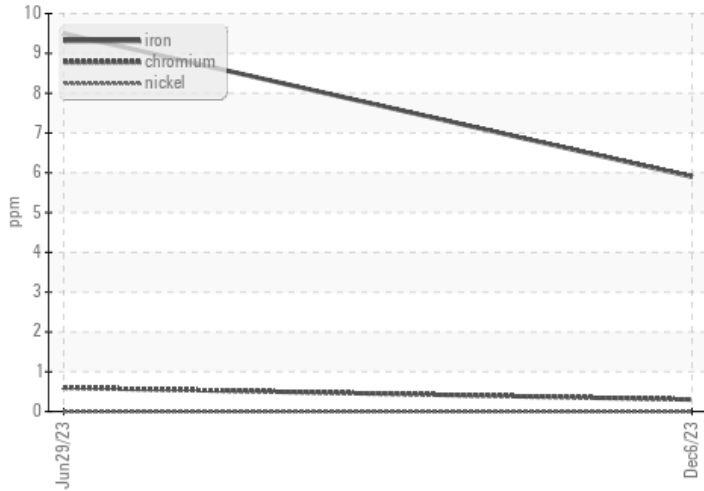


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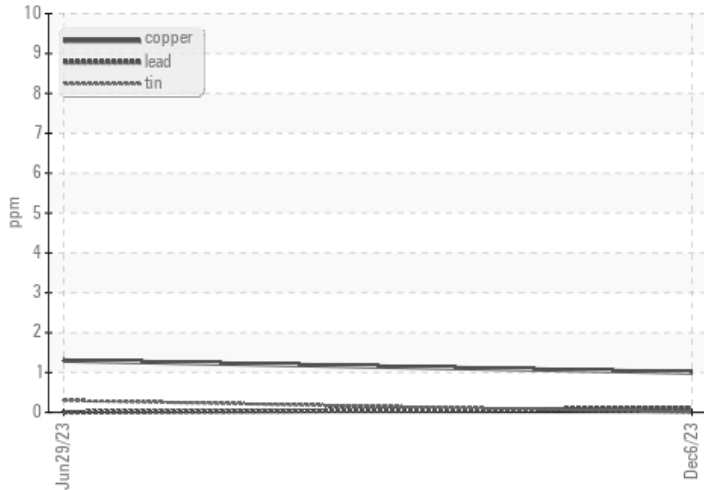


## GRAPHS

### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

