



# CONSTRUCTION EQUIPMENT

620458 ATLAS ORG VOLVO L90H 623733 - HYDRAULIC SYSTEM



**Sample No:** VCP401710  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 620458 ATLAS ORG



## SAMPLE INFORMATION

Sample Number	<b>VCP401710</b>	VCP417235	VCP410266	VCP357427
Sample Date	<b>12 Oct 2023</b>	29 Jun 2023	28 Mar 2023	14 Apr 2022
Machine Hours	<b>7240</b>	6673	11120	9196
Oil Hours	<b>0</b>	0	3000	1000
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	ABNORMAL

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

Visc @ 40°C	cSt	<b>43.9</b>	42.8	60.4	60.5
Acid Number (AN)	mg KOH/g	<b>0.43</b>	0.34	0.34	0.30



## CONTAMINATION

Particles >4µm	<b>1057</b>	1552	30340	11016	
Particles >6µm	<b>278</b>	295	9487	3448	
Particles >14µm	<b>26</b>	29	794	288	
ISO 4406:1999 (c)	<b>17/15/12</b>	18/15/12	22/20/17	21/19/15	
Silicon	ppm	<b>1</b>	2	4	4
Sodium	ppm	<b>0</b>	<1	1	1
Potassium	ppm	<b>0</b>	2	<1	0

## Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



## WEAR METALS

Iron	ppm	<b>4</b>	7	3	5
Copper	ppm	<b>&lt;1</b>	<1	1	2
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>0</b>	1	1	2
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>2</b>	2	<1	1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>93</b>	82	366	199
Magnesium	ppm	<b>6</b>	13	8	19
Zinc	ppm	<b>430</b>	449	580	453
Phosphorus	ppm	<b>340</b>	351	469	378
Barium	ppm	<b>0</b>	0	<1	0
Boron	ppm	<b>4</b>	1	9	5

**Depot:** VOLVO0096  
**Unique No:** 10698470  
**Signed:** Wes Davis  
**Report Date:** 18 Oct 2023

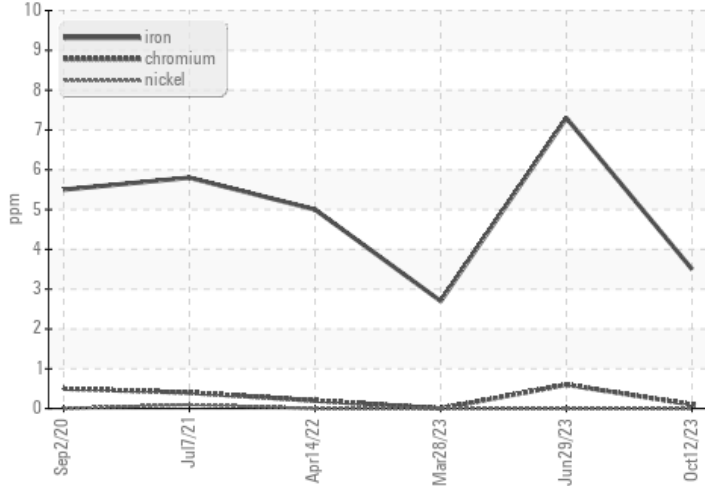


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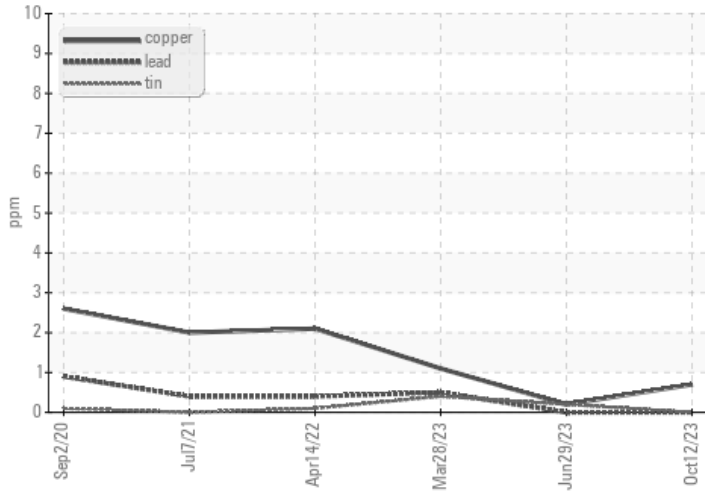


## VOLVO GRAPHS

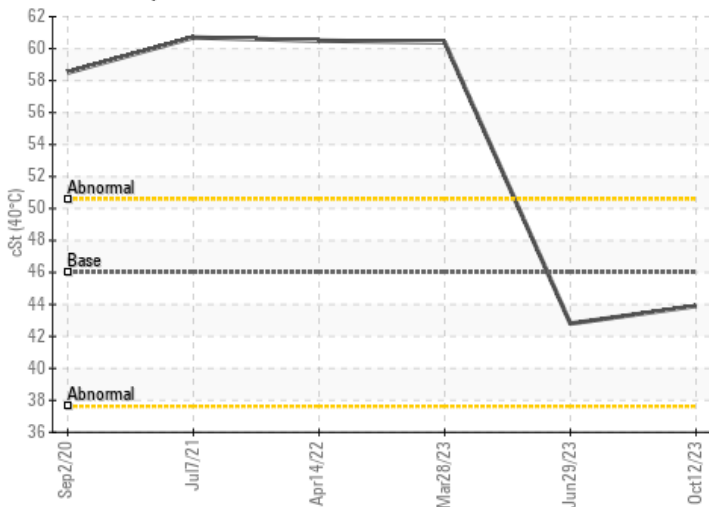
Ferrous Alloys



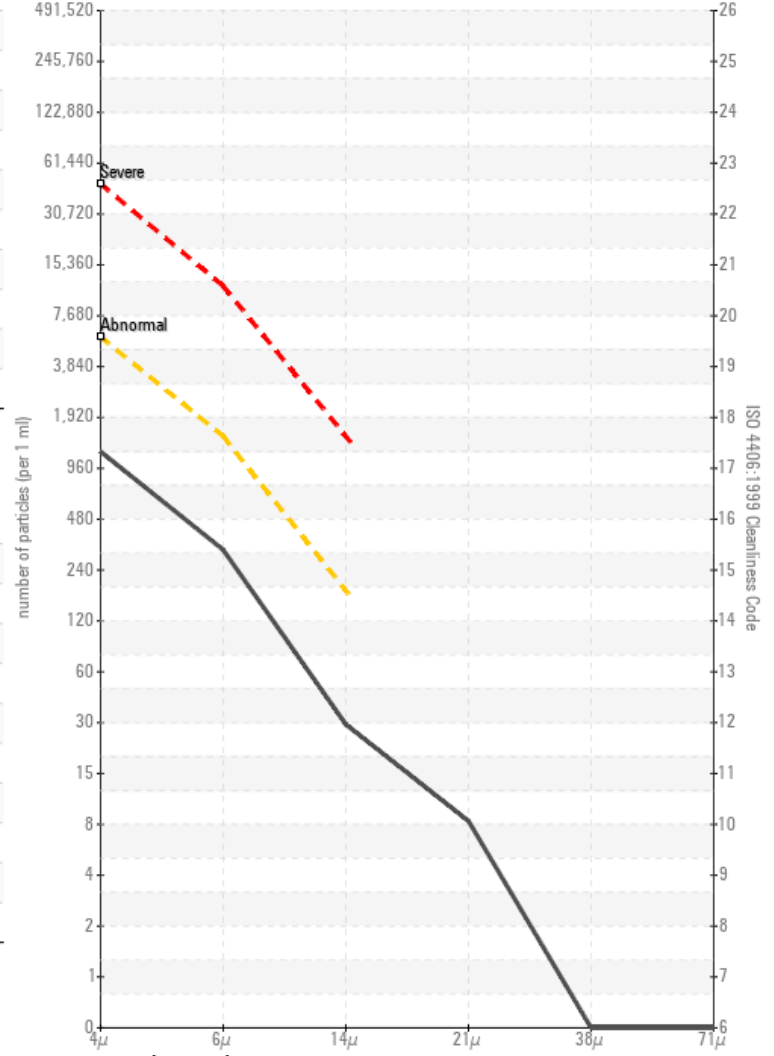
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

