



# CONSTRUCTION EQUIPMENT

## ATLAS ORGANICS VOLVO L70H 624288 - HYDRAULIC SYSTEM



**Sample No:** VCP451238  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** ATLAS ORGANICS



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### SAMPLE INFORMATION

Sample Number	<b>VCP451238</b>	VCP422676	VCP355078	---
Sample Date	<b>21 Jun 2024</b>	16 Aug 2023	20 Jun 2022	---
Machine Hours	<b>3537</b>	2287	925	---
Oil Hours	<b>0</b>	0	925	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>NORMAL</b>	SEVERE	ABNORMAL	---



### OIL CONDITION

Visc @ 40°C	cSt	<b>42.7</b>	42.2	43.5	---
Acid Number (AN)	mg KOH/g	<b>0.38</b>	0.32	0.43	---



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>3734</b>	31803	78965	---
Particles >6µm		<b>795</b>	8858	11706	---
Particles >14µm		<b>55</b>	1223	645	---
ISO 4406:1999 (c)		<b>19/17/13</b>	22/20/17	23/21/17	---
Silicon	ppm	<b>2</b>	3	3	---
Sodium	ppm	<b>1</b>	1	<1	---
Potassium	ppm	<b>1</b>	0	<1	---



### WEAR METALS

Iron	ppm	<b>1</b>	6	3	---
Copper	ppm	<b>&lt;1</b>	<1	2	---
Lead	ppm	<b>0</b>	0	<1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>0</b>	0	0	---
Chromium	ppm	<b>&lt;1</b>	<1	0	---
Molybdenum	ppm	<b>0</b>	0	<1	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	0	0	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>110</b>	83	71	---
Magnesium	ppm	<b>5</b>	8	6	---
Zinc	ppm	<b>434</b>	432	416	---
Phosphorus	ppm	<b>350</b>	226	311	---
Barium	ppm	<b>&lt;1</b>	0	0	---
Boron	ppm	<b>&lt;1</b>	0	4	---

### 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.

**Depot:** VOLVO0093  
**Unique No:** 11099343  
**Signed:** Wes Davis  
**Report Date:** 27 Jun 2024

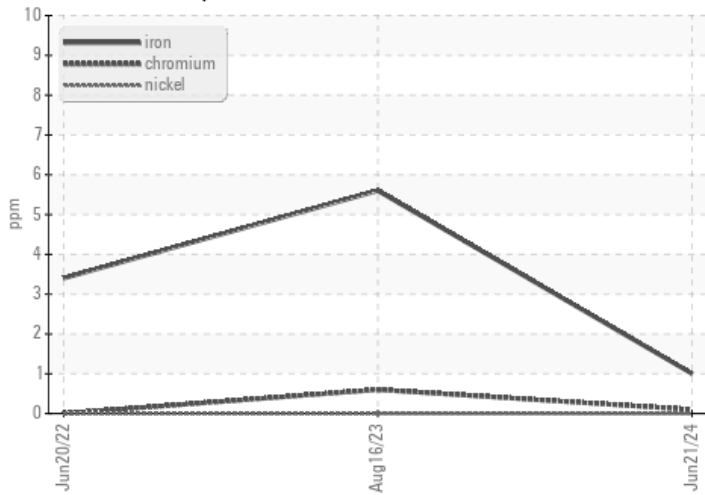


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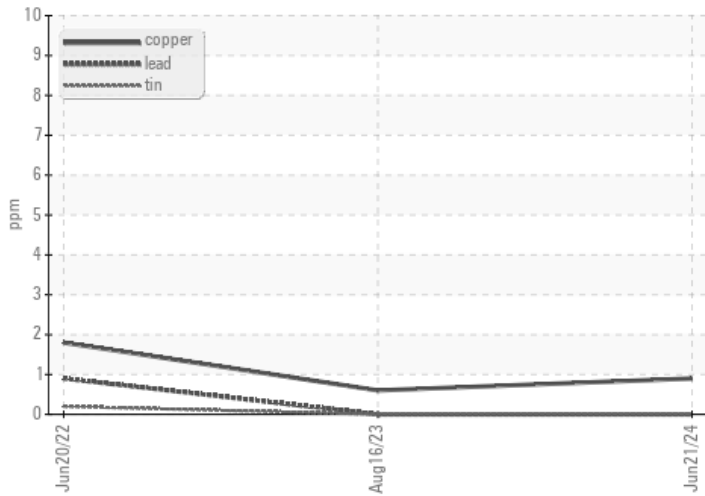


## GRAPHS

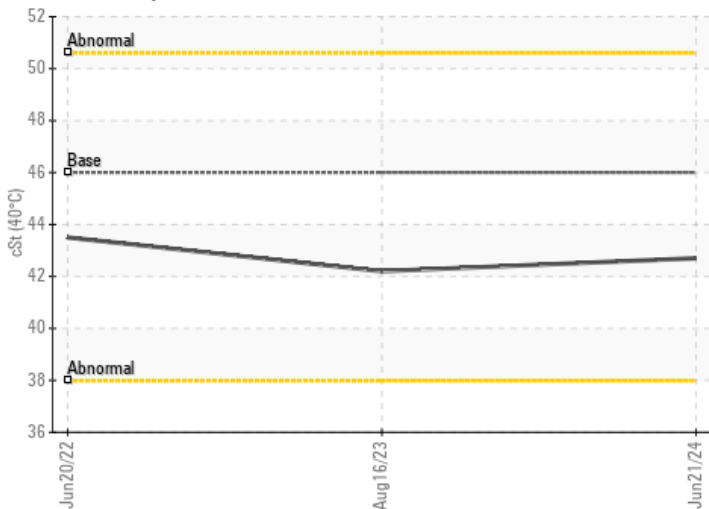
### Ferrous Alloys



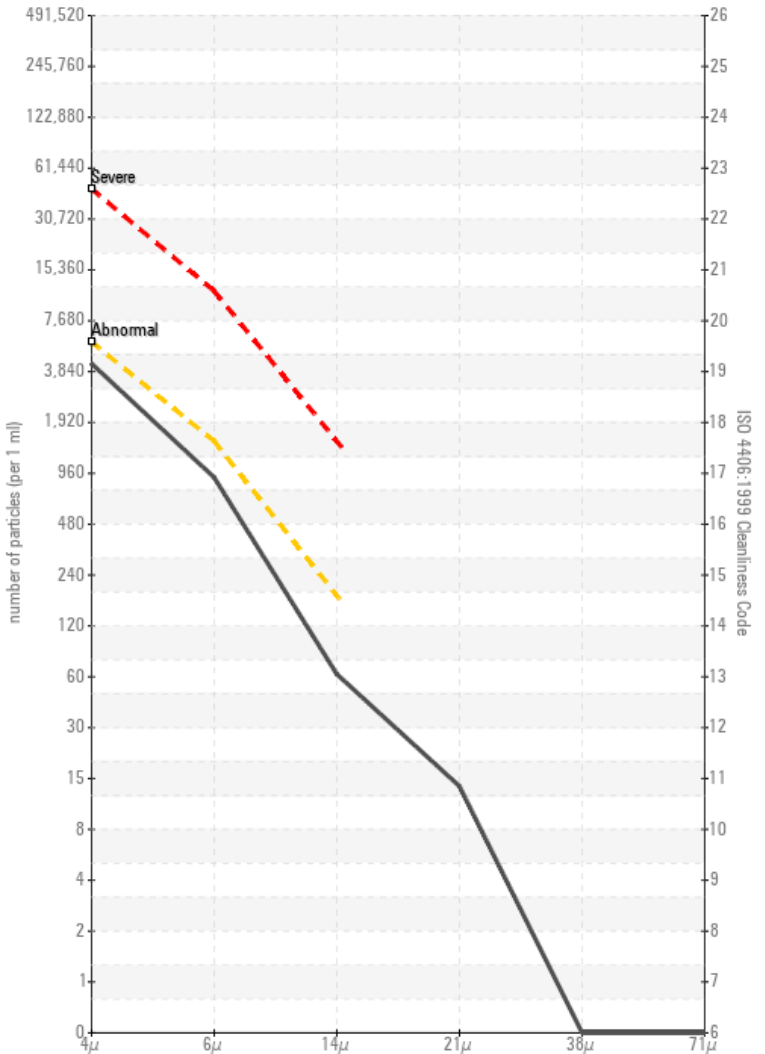
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

