



# CONSTRUCTION EQUIPMENT

## X58584 VOLVO L220H 003442 - HYDRAULIC SYSTEM



**Sample No:** VCP426147  
**Oil Type:** NOT GIVEN  
**Job No:** X58584



### SAMPLE INFORMATION

Sample Number	VCP426147	VCP384439	---	---
Sample Date	21 Sep 2023	30 Mar 2023	---	---
Machine Hours	4161	2097	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	SEVERE	NORMAL	---	---

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### OIL CONDITION

Visc @ 40°C	cSt	57.7	53.0	---	---
Acid Number (AN)	mg KOH/g	0.19	0.35	---	---



### CONTAMINATION

Particles >4µm		43585	1088	---	---
Particles >6µm		14749	308	---	---
Particles >14µm		1251	29	---	---
ISO 4406:1999 (c)		23/21/17	17/15/12	---	---
Silicon	ppm	<1	<1	---	---
Sodium	ppm	<1	0	---	---
Potassium	ppm	0	<1	---	---



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	41	37	---	---
Magnesium	ppm	4	11	---	---
Zinc	ppm	118	201	---	---
Phosphorus	ppm	129	182	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

### Diagnosis

We advise that you check all areas where contaminants can enter the system. The oil change at the time of sampling has been noted. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. There is a high 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:** SCOSAI  
**Unique No:** 10662403  
**Signed:** Wes Davis  
**Report Date:** 27 Sep 2023

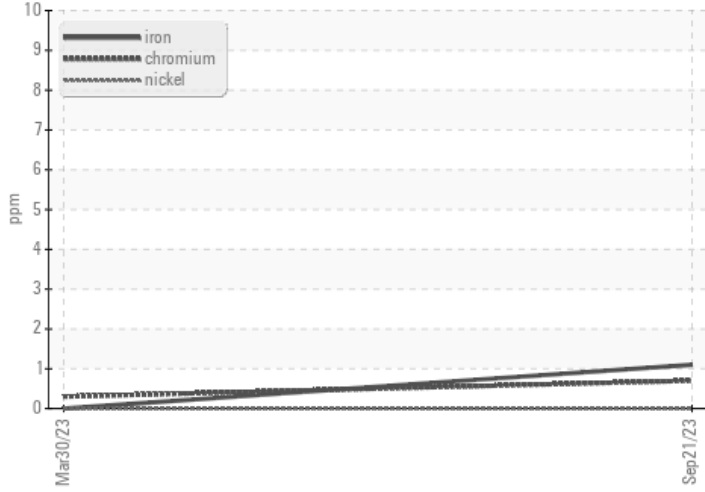


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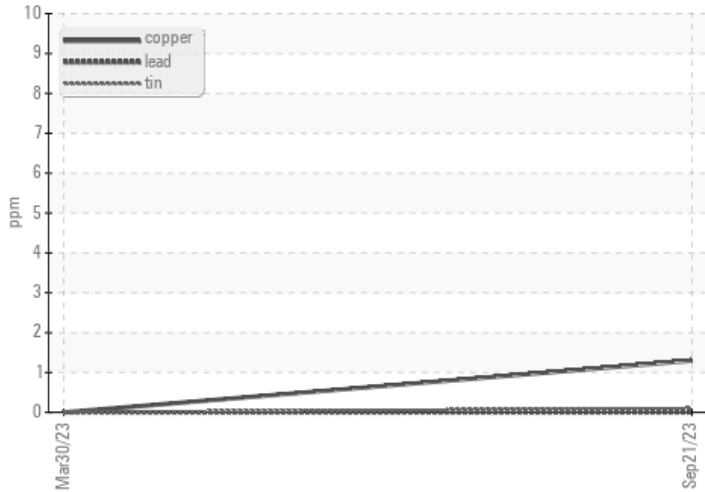


## GRAPHS

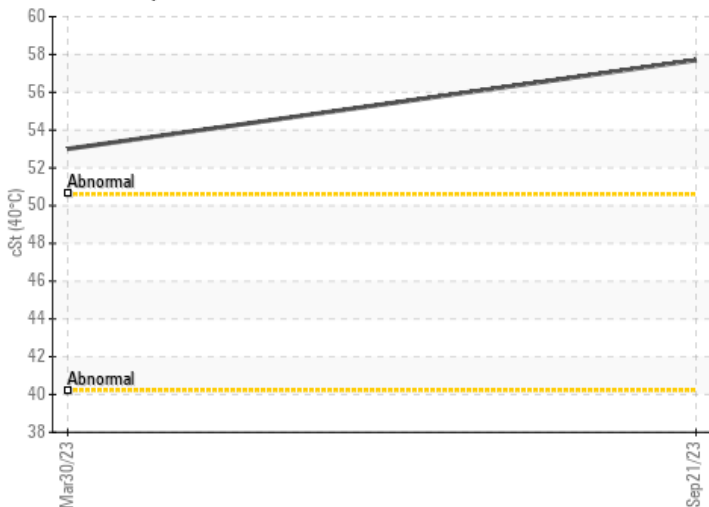
### Ferrous Alloys



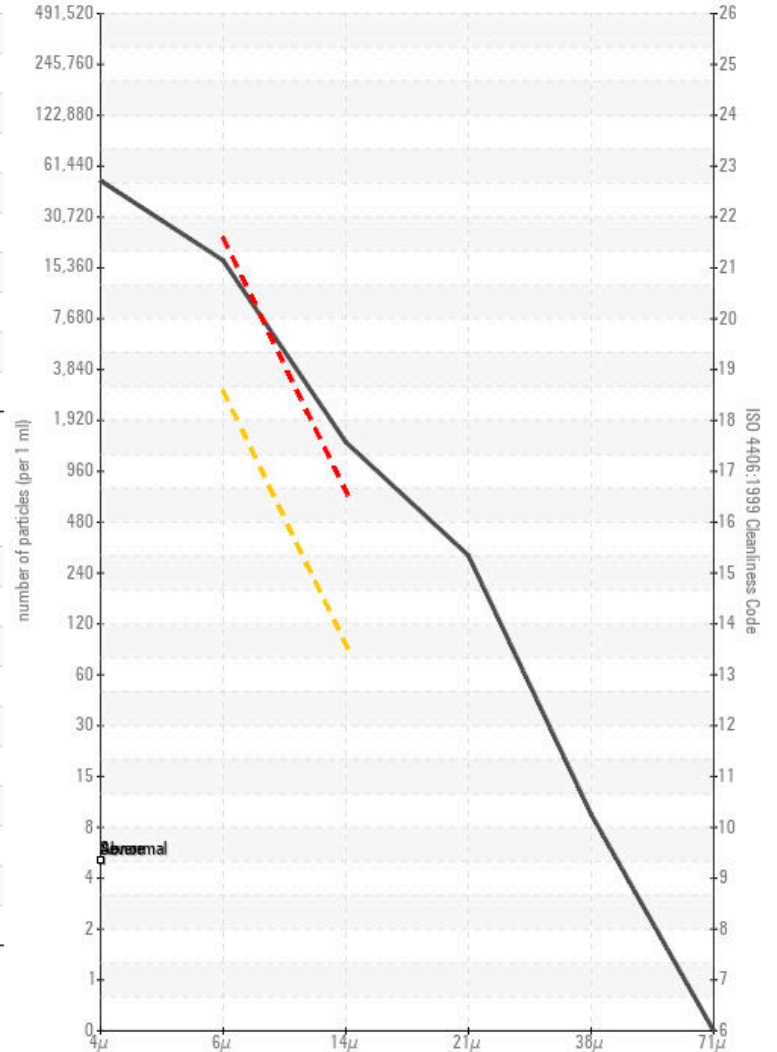
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

