



# CONSTRUCTION EQUIPMENT

## SW-1032454 SUNGROW VOLVO L90H 625075 - HYDRAULIC SYSTEM



**Sample No:** VCP358174  
**Oil Type:** {unknown}  
**Job No:** SW-1032454 SUNGROW



### SAMPLE INFORMATION

Sample Number	VCP358174	VCP257380	---	---
Sample Date	02 Apr 2024	08 Oct 2019	---	---
Machine Hours	10045	560	---	---
Oil Hours	0	560	---	---
Oil Changed	Not Chngd	Not Chngd	---	---
Sample Status	SEVERE	ABNORMAL	---	---

### ARNOLD MACHINERY COMPANY

2975 WEST 2100 SOUTH  
 SALT LAKE CITY, UT  
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### OIL CONDITION

Visc @ 40°C	cSt	█ 42.5	█ 43.5	---	---
Acid Number (AN)	mg KOH/g	█ 0.53	█ 0.320	---	---



### CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		█ 166875	█ 59213	---	---
Particles >6µm		▲ 66961	▲ 24406	---	---
Particles >14µm		▲ 3771	▲ 3396	---	---
ISO 4406:1999 (c)		25/23/19	23/22/19	---	---
Silicon	ppm	█ 4	█ 3	---	---
Sodium	ppm	█ 3	█ 1	---	---
Potassium	ppm	█ 0	█ <1	---	---

### Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. 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.



### WEAR METALS

Iron	ppm	█ 5	█ 3	---	---
Copper	ppm	█ 0	█ 2	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ 0	█ 0	---	---
Aluminum	ppm	█ 0	█ <1	---	---
Chromium	ppm	█ 0	█ <1	---	---
Molybdenum	ppm	1	█ 0	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	0	█ <1	---	---
Vanadium	ppm	0	0	---	---



### ADDITIVES

Calcium	ppm	800	█ 110	---	---
Magnesium	ppm	14	█ 2	---	---
Zinc	ppm	586	█ 520	---	---
Phosphorus	ppm	485	█ 389	---	---
Barium	ppm	<1	█ 0	---	---
Boron	ppm	27	█ 1	---	---

**Depot:** VOLVO8770  
**Unique No:** 10975877  
**Signed:** Wes Davis  
**Report Date:** 17 Apr 2024

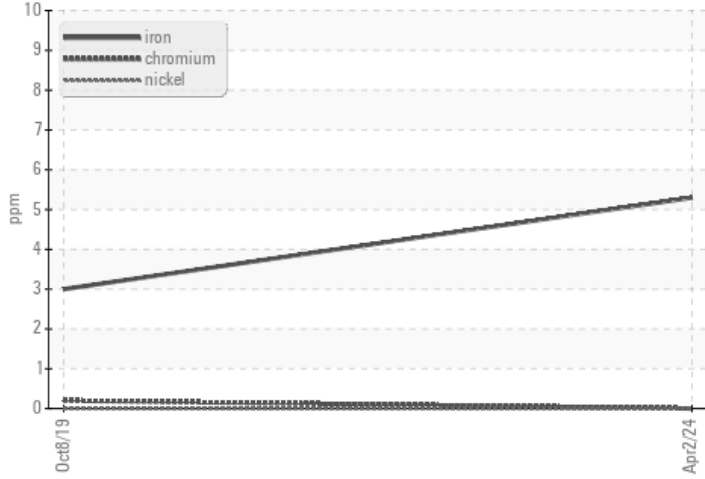


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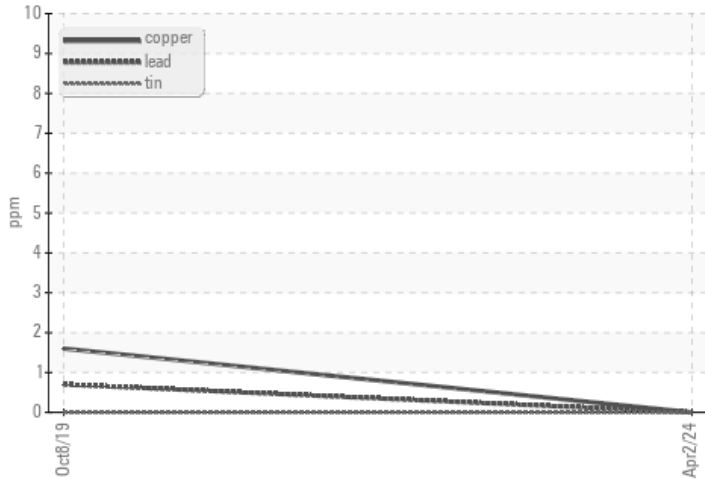


## GRAPHS

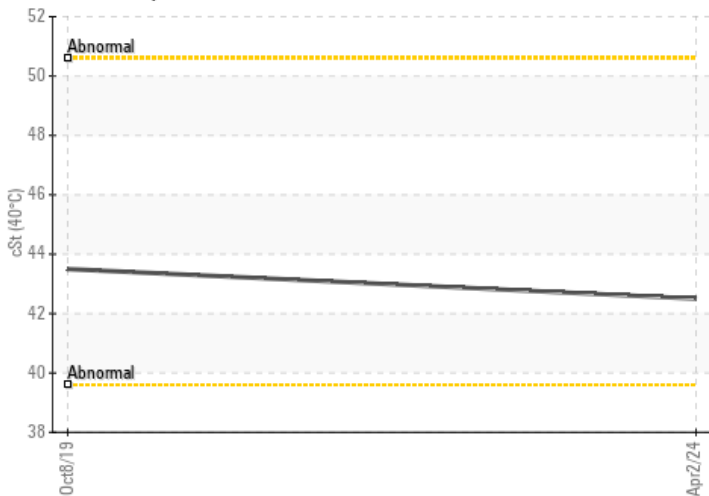
### Ferrous Alloys



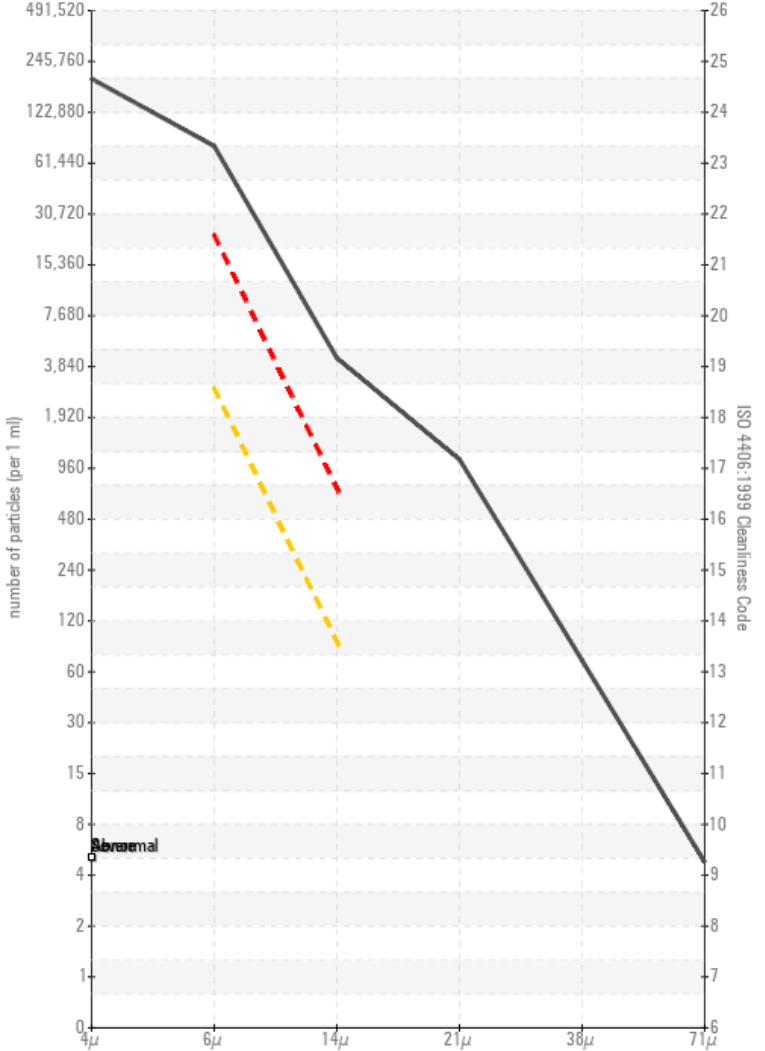
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

