



# CONSTRUCTION EQUIPMENT

## 579739 VOLVO L90H 624033 - HYDRAULIC SYSTEM



**Sample No:** VCP425880  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 579739



### SAMPLE INFORMATION

Sample Number	<b>VCP425880</b>	VCP400227	VCP373183	VCP297018
Sample Date	<b>18 Jul 2023</b>	07 Dec 2022	17 May 2022	13 Jan 2021
Machine Hours	<b>9461</b>	8375	7309	5018
Oil Hours	<b>1400</b>	4000	3000	1000
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	ATTENTION	ATTENTION

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: ROBERT TURNER  
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 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>45.2</b>	42.8	43.1	43.5
Acid Number (AN)	mg KOH/g	<b>0.25</b>	0.31	0.35	0.224



### CONTAMINATION

Particles >4µm		<b>3979</b>	1043	5401	3450
Particles >6µm		<b>751</b>	137	1267	762
Particles >14µm		<b>46</b>	11	121	125
ISO 4406:1999 (c)		<b>19/17/13</b>	17/14/11	20/17/14	19/17/14
Silicon	ppm	<b>4</b>	3	4	2
Sodium	ppm	<b>0</b>	0	2	2
Potassium	ppm	<b>1</b>	1	0	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>3</b>	6	4	3
Copper	ppm	<b>2</b>	4	3	2
Lead	ppm	<b>1</b>	2	2	1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	2	0
Chromium	ppm	<b>1</b>	2	2	1
Molybdenum	ppm	<b>2</b>	4	4	4
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	<1	0
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>73</b>	93	83	81
Magnesium	ppm	<b>7</b>	9	11	12
Zinc	ppm	<b>431</b>	412	425	411
Phosphorus	ppm	<b>351</b>	317	332	322
Barium	ppm	<b>&lt;1</b>	0	0	0
Boron	ppm	<b>&lt;1</b>	2	0	3

**Depot:** RIPTAM  
**Unique No:** 10566740  
**Signed:** Wes Davis  
**Report Date:** 25 Jul 2023

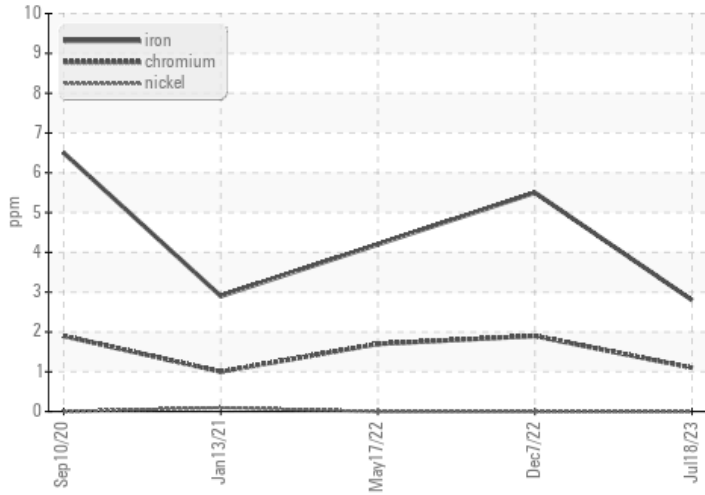


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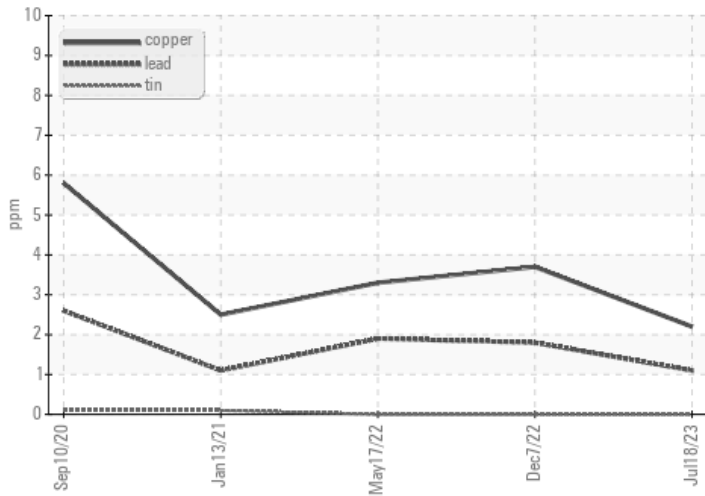


## VOLVO GRAPHS

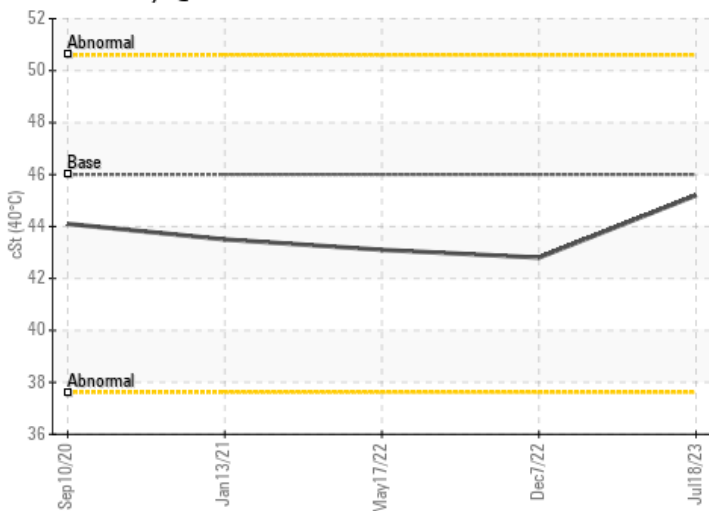
### Ferrous Alloys



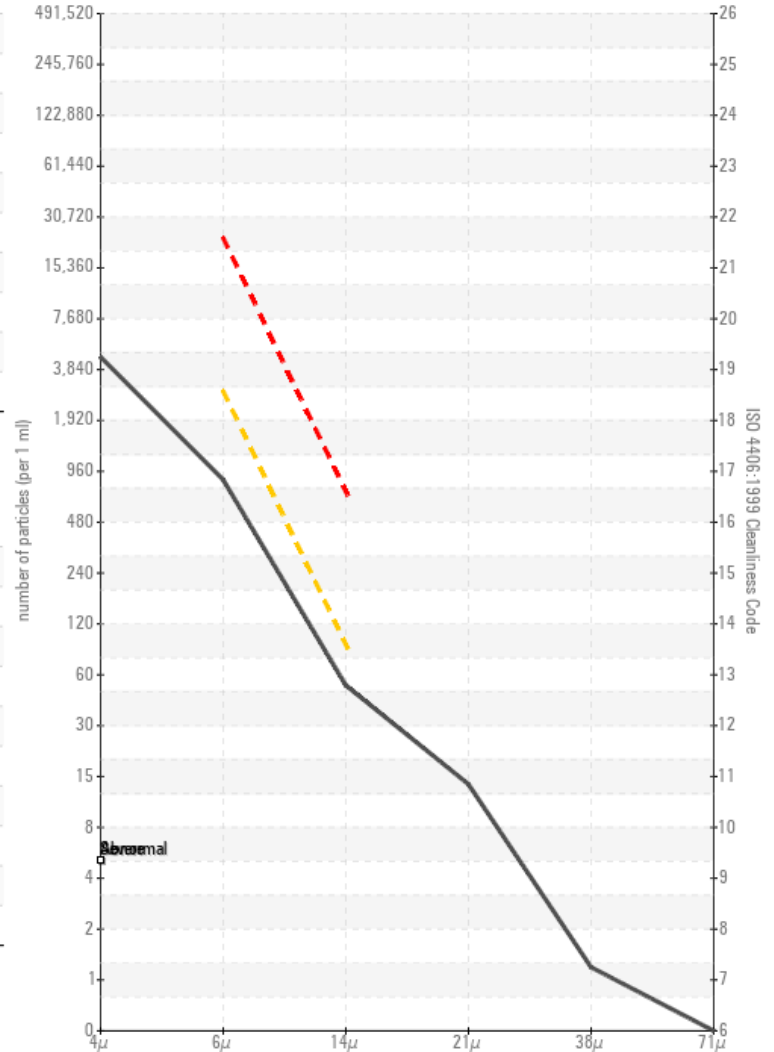
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

