



# CONSTRUCTION EQUIPMENT

## 302924 VOLVO L90G 617783 - HYDRAULIC SYSTEM



**Sample No:** VCP417500  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 302924



### SAMPLE INFORMATION

Sample Number	<b>VCP417500</b>	VCP372794	VCP378863	VCP301971
Sample Date	<b>06 Jul 2023</b>	15 Dec 2022	24 May 2022	06 Jan 2021
Machine Hours	<b>11536</b>	11049	10496	9508
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	ATTENTION	ABNORMAL	NORMAL

**COVANTA LAKES**  
 3830 ROGERS INDUSTRIAL PARK ROAD  
 OKAHUMPKA, FL  
 US 32762  
 Contact: SERVICE MANAGER

### OIL CONDITION

Visc @ 40°C	cSt	<b>55.5</b>	50.3	49.4	43.5
Acid Number (AN)	mg KOH/g	<b>0.34</b>	0.31	0.36	0.227

T:  
F:

### CONTAMINATION

Particles >4µm		<b>3864</b>	21534	30071	4844
Particles >6µm		<b>588</b>	1575	392	689
Particles >14µm		<b>40</b>	▲ 95	20	18
ISO 4406:1999 (c)		<b>19/16/12</b>	22/18/14	22/16/11	19/17/11
Silicon	ppm	<b>&lt;1</b>	0	2	2
Sodium	ppm	<b>0</b>	1	<1	4
Potassium	ppm	<b>1</b>	0	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>2</b>	0	6	4
Copper	ppm	<b>&lt;1</b>	<1	2	1
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>&lt;1</b>	0	0	0
Chromium	ppm	<b>3</b>	6	▲ 16	1
Molybdenum	ppm	<b>&lt;1</b>	0	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>55</b>	45	85	66
Magnesium	ppm	<b>0</b>	0	4	6
Zinc	ppm	<b>444</b>	411	737	418
Phosphorus	ppm	<b>344</b>	334	545	322
Barium	ppm	<b>0</b>	0	1	0
Boron	ppm	<b>0</b>	0	1	2

**Depot:** COVOKA  
**Unique No:** 10550761  
**Signed:** Doug Bogart  
**Report Date:** 19 Jul 2023

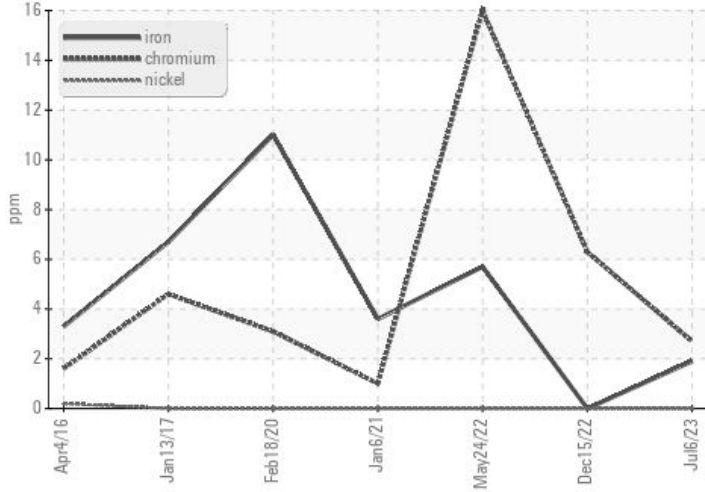


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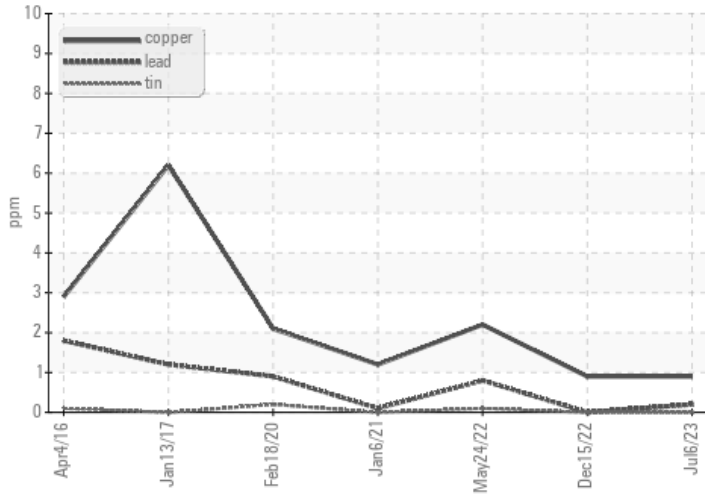


## GRAPHS

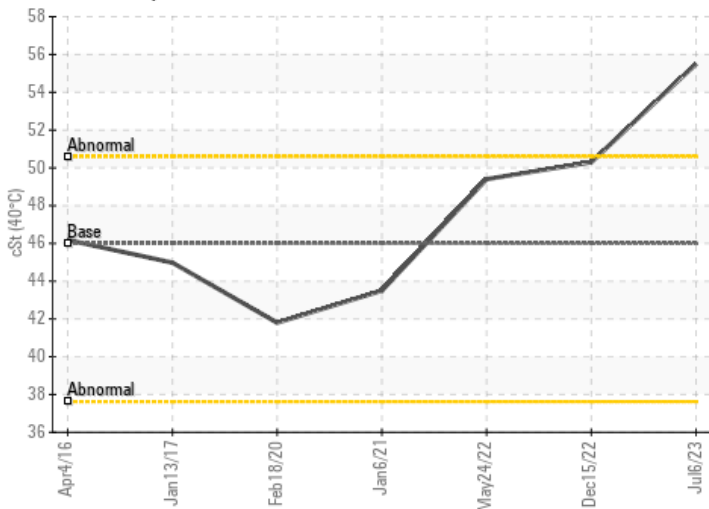
### Ferrous Alloys



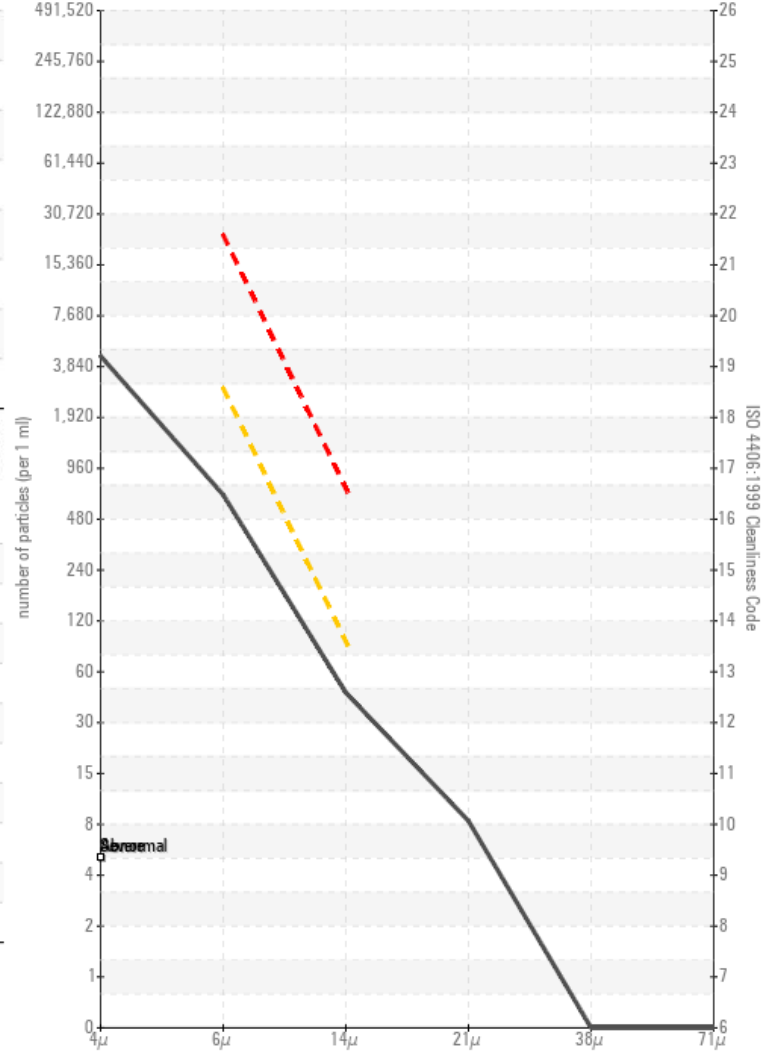
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

