



# CONSTRUCTION EQUIPMENT

## SPM593821 VOLVO L90E 67647 - HYDRAULIC SYSTEM



**Sample No:** VCP415256  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM593821



### SAMPLE INFORMATION

Sample Number	<b>VCP415256</b>	VCP387960	VCP374569	---
Sample Date	<b>25 Aug 2023</b>	14 Dec 2022	01 Jun 2022	---
Machine Hours	<b>39190</b>	38982	38237	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Changd</b>	Changed	Not Changd	---
Sample Status	<b>ATTENTION</b>	ATTENTION	ABNORMAL	---

**VICTORY AUTO WRECKERS**  
 710 EAST GREEN STREET  
 BENSENVILLE, IL  
 US 60196  
 Contact: SERVICE MANAGER



### OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 32.9</b>	▲ 31.1	▲ 33.5	---
Acid Number (AN)	mg KOH/g	<b>■ 0.30</b>	■ 0.34	■ 0.29	---

T: (630)860-2000  
 F:



### CONTAMINATION

Particles >4µm		<b>4312</b>	6978	12603	---
Particles >6µm		<b>■ 668</b>	■ 774	▲ 3390	---
Particles >14µm		<b>■ 31</b>	■ 37	▲ 275	---
ISO 4406:1999 (c)		<b>19/17/12</b>	20/17/12	21/19/15	---
Silicon	ppm	<b>■ 3</b>	■ <1	■ 3	---
Sodium	ppm	<b>■ 0</b>	■ 0	■ 0	---
Potassium	ppm	<b>■ &lt;1</b>	■ 0	■ 0	---

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.



### WEAR METALS

Iron	ppm	<b>■ 5</b>	■ 7	■ 5	---
Copper	ppm	<b>■ 1</b>	■ <1	■ 1	---
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	---
Tin	ppm	<b>■ 0</b>	■ 0	■ 0	---
Aluminum	ppm	<b>■ 0</b>	■ 0	■ <1	---
Chromium	ppm	<b>■ 1</b>	■ 4	■ 1	---
Molybdenum	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>■ 0</b>	■ 0	■ 0	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>■ 88</b>	■ 61	■ 91	---
Magnesium	ppm	<b>■ 2</b>	■ 2	■ <1	---
Zinc	ppm	<b>■ 413</b>	■ 420	■ 412	---
Phosphorus	ppm	<b>■ 327</b>	■ 336	■ 339	---
Barium	ppm	<b>■ 2</b>	■ 0	■ 0	---
Boron	ppm	<b>■ &lt;1</b>	■ 0	■ 5	---

**Depot:** VICBEN  
**Unique No:** 10632700  
**Signed:** Don Baldrige  
**Report Date:** 07 Sep 2023

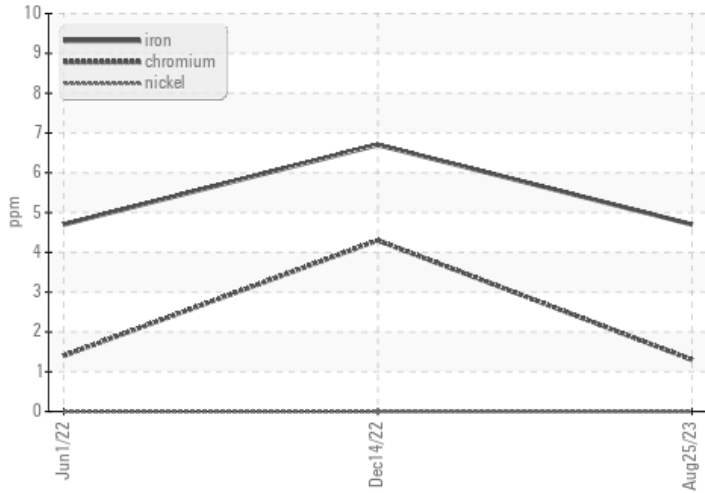


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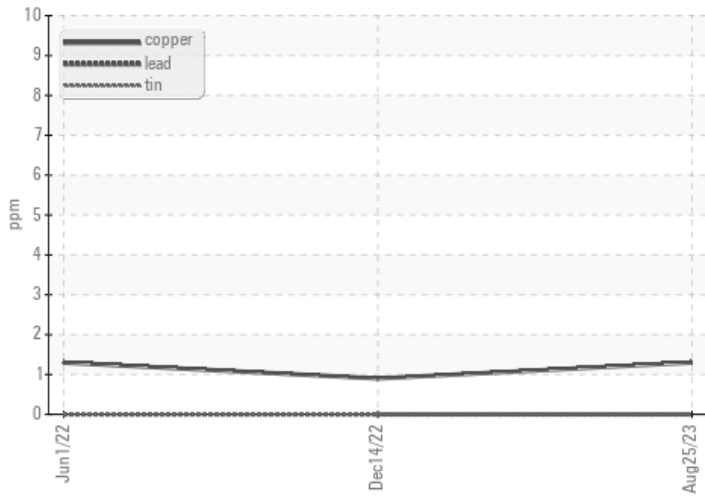


## GRAPHS

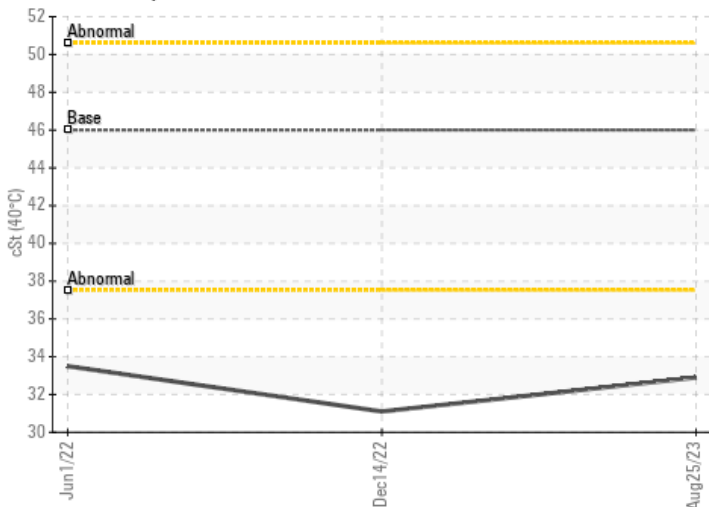
### Ferrous Alloys



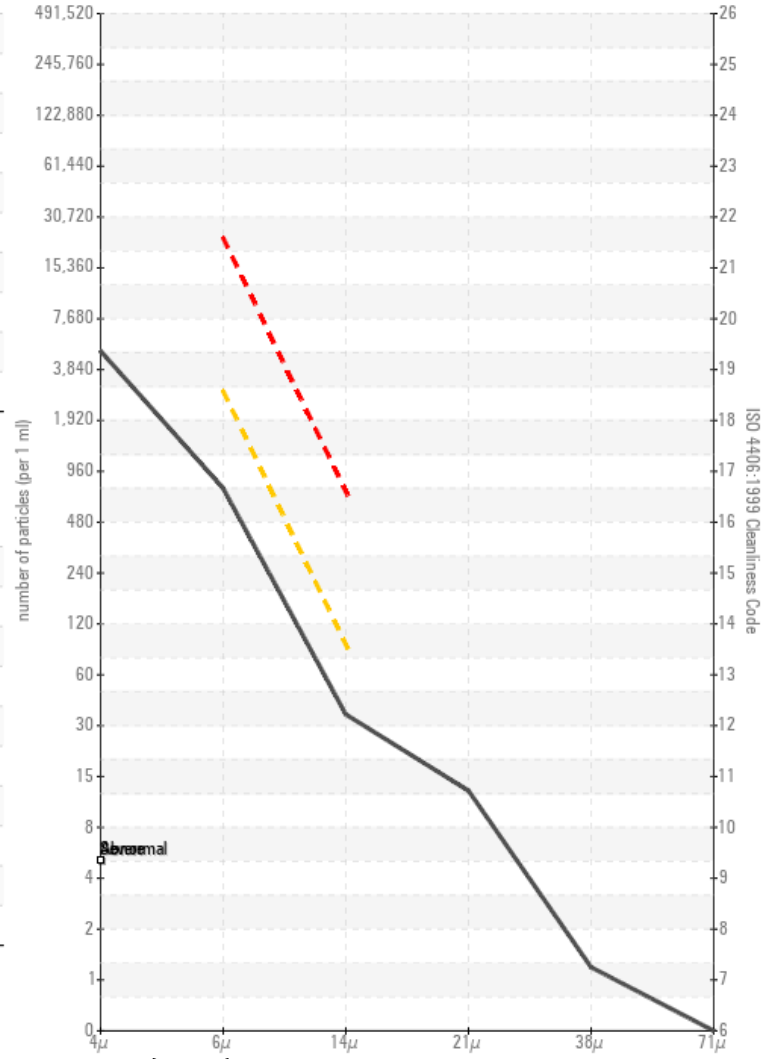
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

