



# CONSTRUCTION EQUIPMENT

SPM634757 SENNEBOGEN 825 825.0.3972 - HYDRAULIC SYSTEM



**Sample No:** VCP435667  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM634757



## SAMPLE INFORMATION

Sample Number	<b>VCP435667</b>	VCP415196	VCP420050	---
Sample Date	<b>29 Nov 2023</b>	12 Sep 2023	13 Jul 2023	---
Machine Hours	<b>1168</b>	646	291	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	---
Sample Status	<b>ATTENTION</b>	ATTENTION	NORMAL	---

**LEMONT SCRAP**  
16229 NEW AVE.  
LEMONT, IL  
US 60432  
Contact: Service Manager

## OIL CONDITION

Visc @ 40°C	cSt	<b>▲ 37.88</b>	■ 42.5	■ 42.3	---
Acid Number (AN)	mg KOH/g	<b>■ 0.99</b>	■ 0.98	■ 1.05	---

T:  
F:

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>■ 2901</b>	▲ 8103	■ 2349	---
Particles >6µm		<b>■ 442</b>	▲ 2019	■ 549	---
Particles >14µm		<b>■ 19</b>	■ 122	■ 53	---
ISO 4406:1999 (c)		<b>19/16/11</b>	20/18/14	18/16/13	---
Silicon	ppm	<b>■ 2</b>	■ 2	■ 2	---
Sodium	ppm	<b>■ 3</b>	■ 2	■ 0	---
Potassium	ppm	<b>■ 0</b>	■ <1	■ 2	---

## 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. The oil viscosity is lower than normal. Confirm oil type. The AN level is acceptable for this fluid.

## WEAR METALS

Iron	ppm	<b>■ 3</b>	■ 2	■ 2	---
Copper	ppm	<b>■ 4</b>	■ 1	■ 1	---
Lead	ppm	<b>■ &lt;1</b>	■ <1	■ <1	---
Tin	ppm	<b>■ 0</b>	■ 0	■ 0	---
Aluminum	ppm	<b>■ 0</b>	■ <1	■ <1	---
Chromium	ppm	<b>■ 2</b>	■ <1	■ <1	---
Molybdenum	ppm	<b>■ 0</b>	■ <1	■ <1	---
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>■ 0</b>	■ 0	■ 0	---
Vanadium	ppm	<b>0</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>■ 769</b>	1075	1161	---
Magnesium	ppm	<b>■ 0</b>	■ 4	■ 4	---
Zinc	ppm	<b>■ 552</b>	■ 613	■ 626	---
Phosphorus	ppm	<b>■ 465</b>	■ 523	■ 510	---
Barium	ppm	<b>■ 0</b>	■ 0	■ 2	---
Boron	ppm	<b>■ 0</b>	■ 0	■ 0	---

**Depot:** LEMLEMVC  
**Unique No:** 10792945  
**Signed:** Don Baldrige  
**Report Date:** 23 Dec 2023

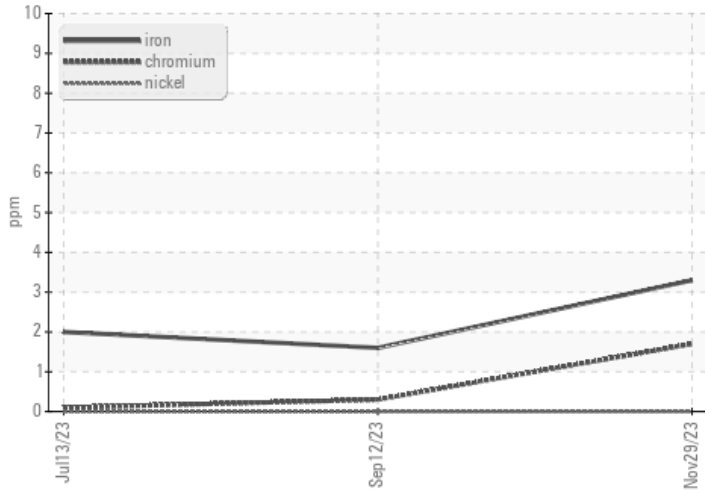


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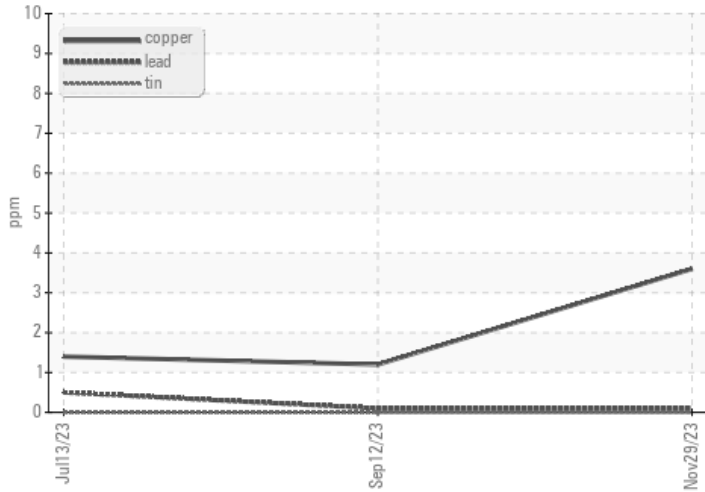


## GRAPHS

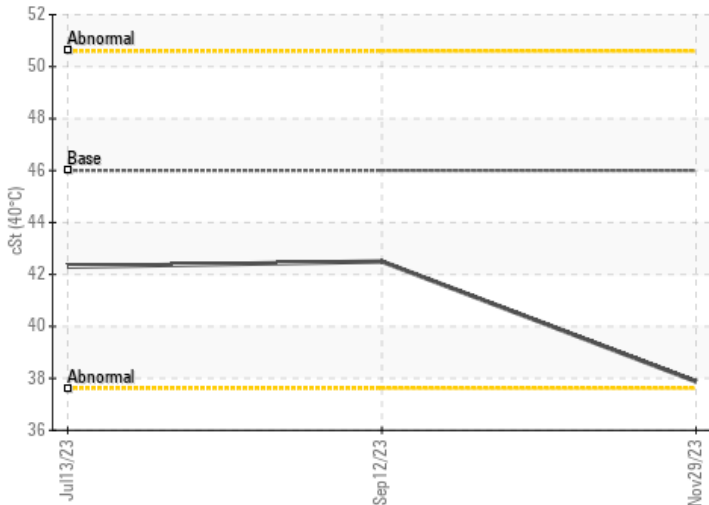
### Ferrous Alloys



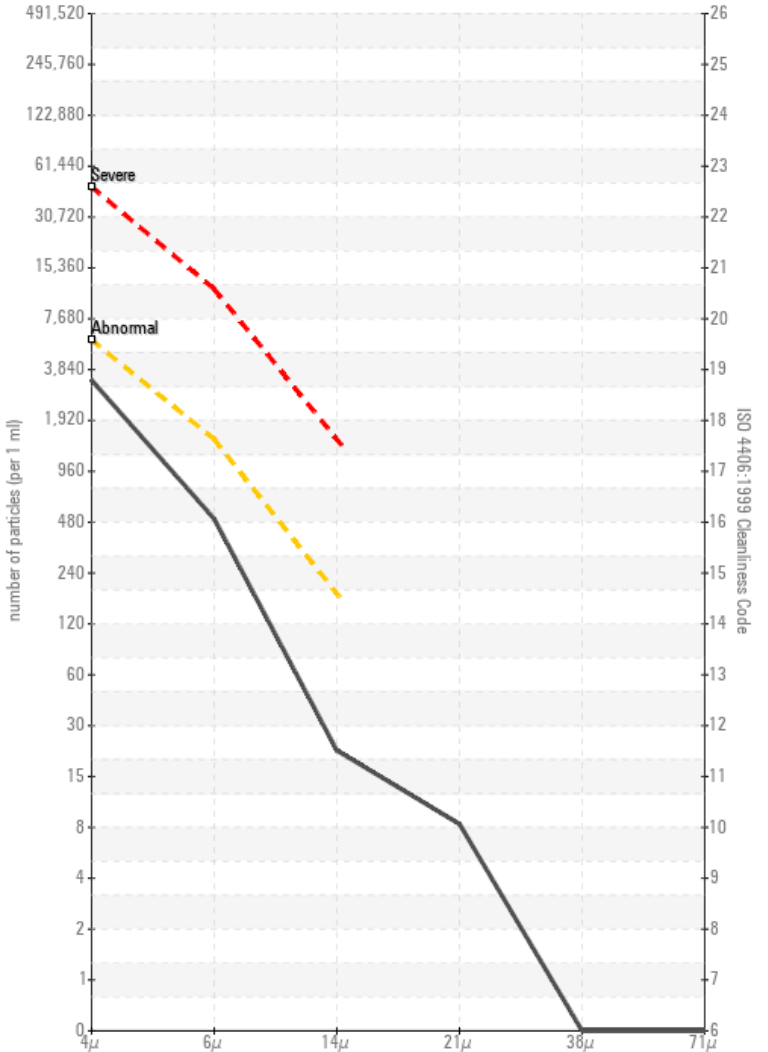
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

