



# CONSTRUCTION EQUIPMENT

## SPM621955 SENNEBOGEN 835 835.0.2015 - HYDRAULIC SYSTEM



**Sample No:** VCP423435  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM621955



### SAMPLE INFORMATION

Sample Number	<b>VCP423435</b>	VCP369252	VCP373878	VCP356178
Sample Date	<b>10 Nov 2023</b>	26 Jan 2023	02 Aug 2022	05 May 2022
Machine Hours	<b>24233</b>	23836	23382	22818
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	NORMAL

### SIMS METAL MANAGEMENT

2500 S. PAULINA  
 CHICAGO, IL  
 US 60608  
 Contact: RYAN WISE  
 ryan.wise@simsmm.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	43.9	42.3	42.1
Acid Number (AN)	mg KOH/g	<b>0.41</b>	0.43	0.34	0.36



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 11875</b>	4534	▲ 44335	3812
Particles >6µm		<b>931</b>	997	▲ 3819	818
Particles >14µm		<b>38</b>	22	▲ 203	51
ISO 4406:1999 (c)		<b>21/17/12</b>	19/17/12	23/19/15	19/17/13
Silicon	ppm	<b>0</b>	<1	<1	<1
Sodium	ppm	<b>2</b>	<1	<1	0
Potassium	ppm	<b>0</b>	0	0	<1

### Diagnosis

The filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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	<b>2</b>	6	7	5
Copper	ppm	<b>&lt;1</b>	1	2	1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>0</b>	0	<1	0
Chromium	ppm	<b>4</b>	7	6	5
Molybdenum	ppm	<b>0</b>	<1	0	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	0	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>58</b>	78	82	53
Magnesium	ppm	<b>2</b>	17	6	7
Zinc	ppm	<b>374</b>	402	421	445
Phosphorus	ppm	<b>298</b>	331	322	343
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	2	1

**Depot:** SIMCHIL  
**Unique No:** 10766937  
**Signed:** Wes Davis  
**Report Date:** 04 Dec 2023

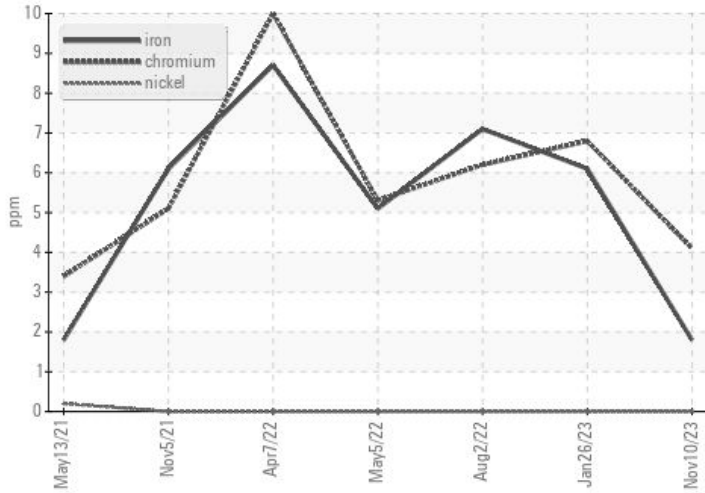


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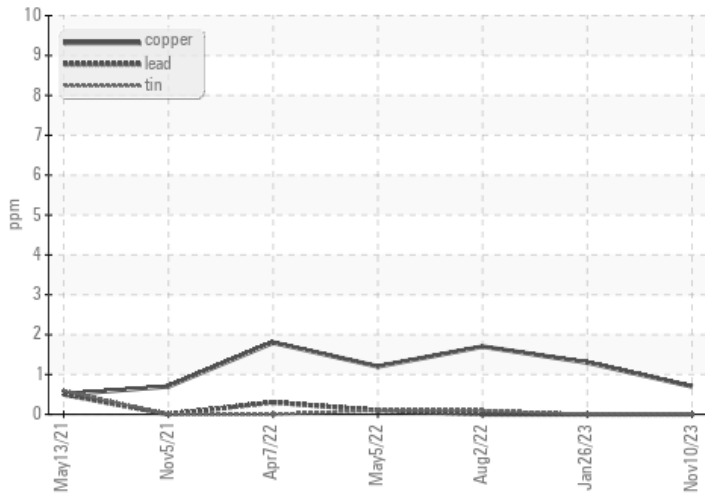


## VOLVO GRAPHS

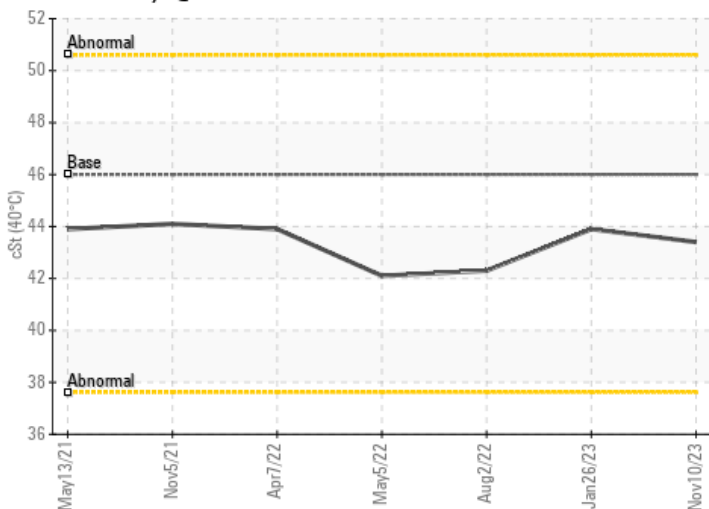
Ferrous Alloys



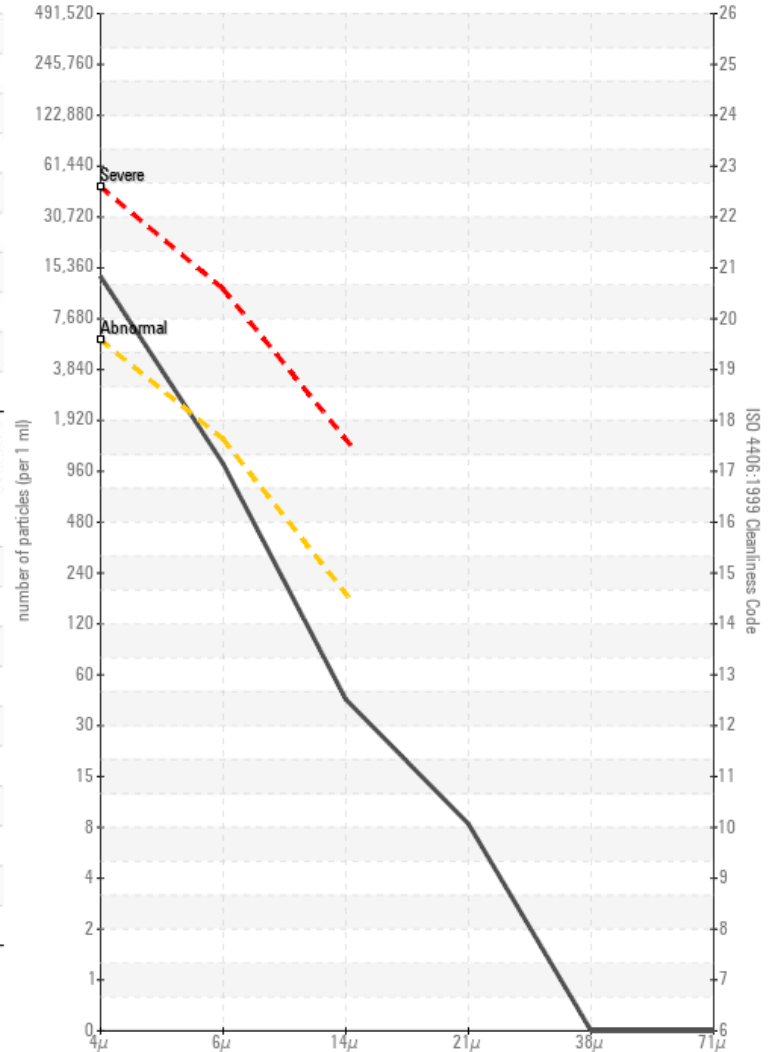
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

