

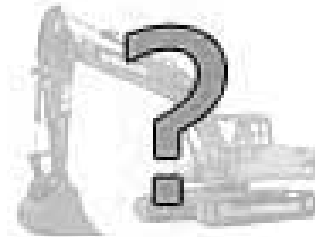


# CONSTRUCTION EQUIPMENT

## SPM686818 SENNEBOGEN 835 835.0.2015 - HYDRAULIC SYSTEM



**Sample No:** VCP407393  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM686818



### SAMPLE INFORMATION

Sample Number	<b>VCP407393</b>	VCP423435	VCP369252	VCP373878
Sample Date	<b>15 Mar 2024</b>	10 Nov 2023	26 Jan 2023	02 Aug 2022
Machine Hours	<b>24766</b>	24233	23836	23382
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	ABNORMAL	NORMAL	ABNORMAL

### 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>44.1</b>	43.4	43.9	42.3
Acid Number (AN)	mg KOH/g	<b>0.42</b>	0.41	0.43	0.34



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		---	▲ 11875	■ 4534	▲ 44335
Particles >6µm		---	■ 931	■ 997	▲ 3819
Particles >14µm		---	■ 38	■ 22	▲ 203
ISO 4406:1999 (c)		---	21/17/12	19/17/12	23/19/15
Silicon	ppm	■ <1	■ 0	■ <1	■ <1
Sodium	ppm	■ 3	■ 2	■ <1	■ <1
Potassium	ppm	■ 1	■ 0	■ 0	■ 0

### Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	■ 5	■ 2	■ 6	■ 7
Copper	ppm	■ 1	■ <1	■ 1	■ 2
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ <1	■ 0	■ 0	■ <1
Aluminum	ppm	■ <1	■ 0	■ 0	■ <1
Chromium	ppm	■ 7	■ 4	■ 7	■ 6
Molybdenum	ppm	■ 0	■ 0	■ <1	■ 0
Nickel	ppm	■ <1	■ 0	■ 0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	■ <1	■ 0	■ 0	■ 0
Vanadium	ppm	0	<1	0	0



### ADDITIVES

Calcium	ppm	■ 68	■ 58	■ 78	■ 82
Magnesium	ppm	■ 15	■ 2	■ 17	■ 6
Zinc	ppm	■ 432	■ 374	■ 402	■ 421
Phosphorus	ppm	■ 335	■ 298	■ 331	■ 322
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ <1	■ 0	■ 0	■ 2

**Depot:** SIMCHIL  
**Unique No:** 10941177  
**Signed:** Don Baldrige  
**Report Date:** 26 Mar 2024

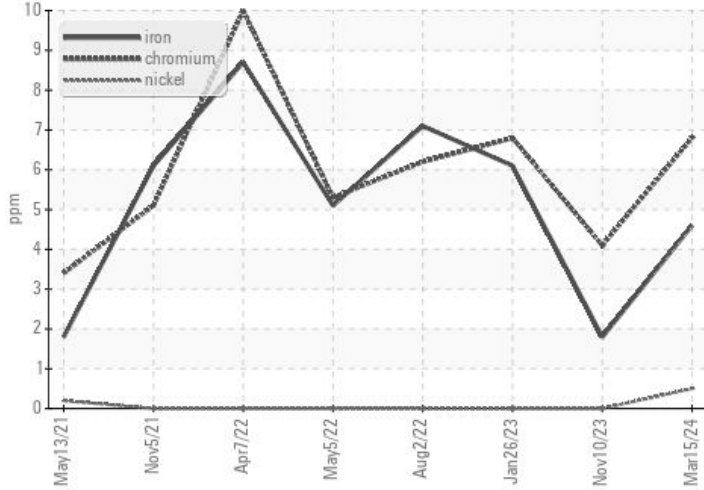


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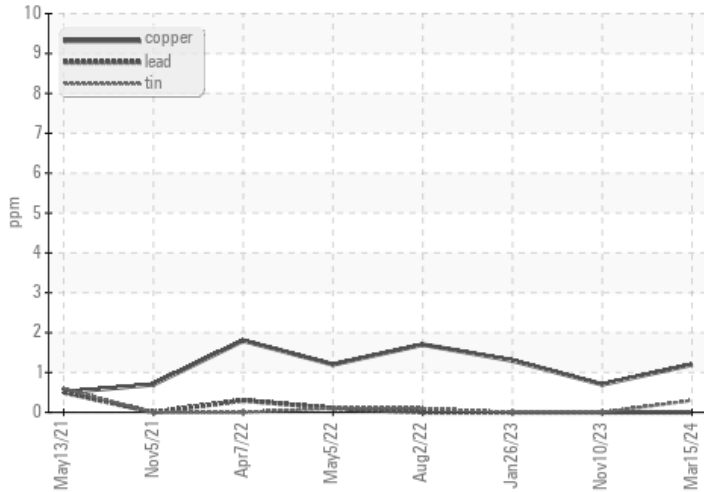


## GRAPHS

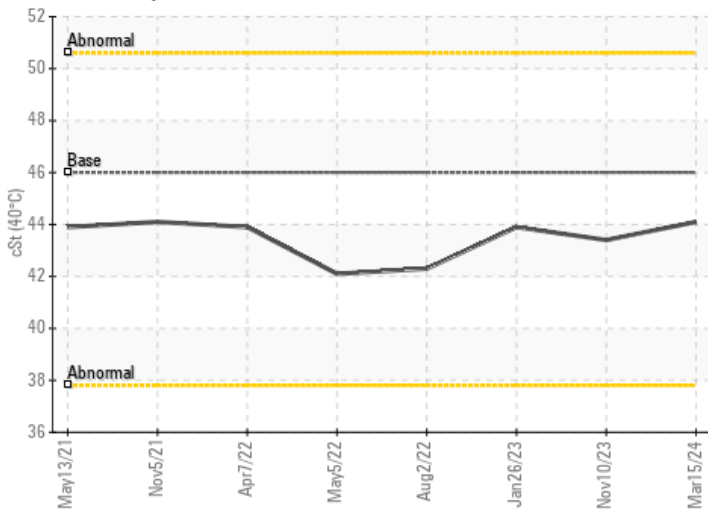
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

