



# CONSTRUCTION EQUIPMENT

## SPM686831 SENNEBOGEN 835ME 835.0.2902 - HYDRAULIC SYSTEM



**Sample No:** VCP427382  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM686831



### SAMPLE INFORMATION

Sample Number	<b>VCP427382</b>	VCP050925	VCP409266	VCP423182
Sample Date	<b>12 Mar 2024</b>	29 Nov 2023	28 Sep 2023	26 Jun 2023
Machine Hours	<b>5160</b>	5105	4557	3988
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>ABNORMAL</b>	ATTENTION	ABNORMAL	ATTENTION

### 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>40.5</b>	38.4	36.8	36.9
Acid Number (AN)	mg KOH/g	<b>0.58</b>	0.89	0.96	0.76



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>21115</b>	5410	---	8028
Particles >6µm		<b>6124</b>	823	---	1976
Particles >14µm		<b>491</b>	29	---	96
ISO 4406:1999 (c)		<b>22/20/16</b>	20/17/12	---	20/18/14
Silicon	ppm	<b>1</b>	2	4	3
Sodium	ppm	<b>7</b>	7	15	4
Potassium	ppm	<b>&lt;1</b>	0	0	<1

### Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



### WEAR METALS

Iron	ppm	<b>23</b>	21	58	18
Copper	ppm	<b>4</b>	6	11	9
Lead	ppm	<b>&lt;1</b>	<1	0	1
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>0</b>	<1	1	<1
Chromium	ppm	<b>4</b>	4	8	6
Molybdenum	ppm	<b>&lt;1</b>	0	0	<1
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>259</b>	642	721	770
Magnesium	ppm	<b>5</b>	0	3	3
Zinc	ppm	<b>467</b>	514	578	583
Phosphorus	ppm	<b>387</b>	392	467	456
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SIMCHIL  
**Unique No:** 10989708  
**Signed:** Don Baldrige  
**Report Date:** 23 Apr 2024

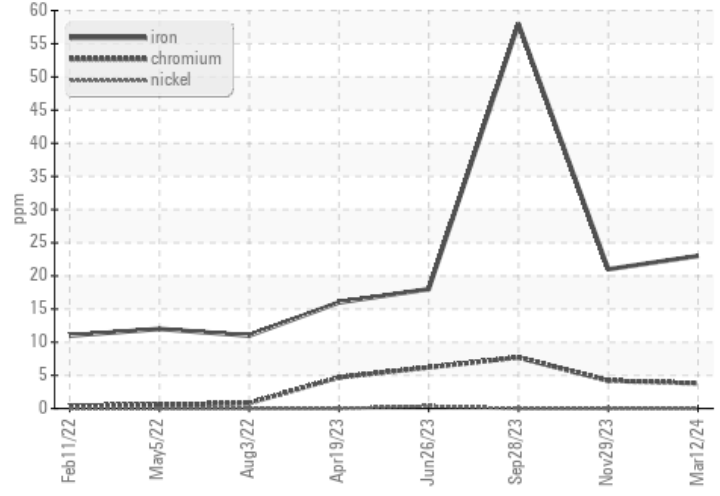


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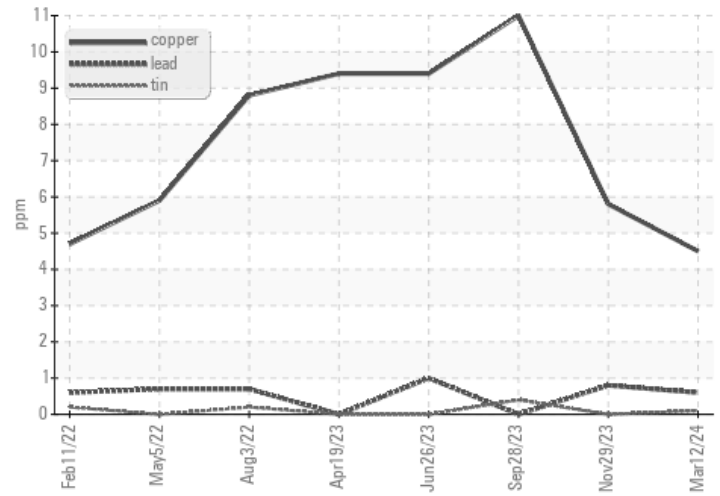


## GRAPHS

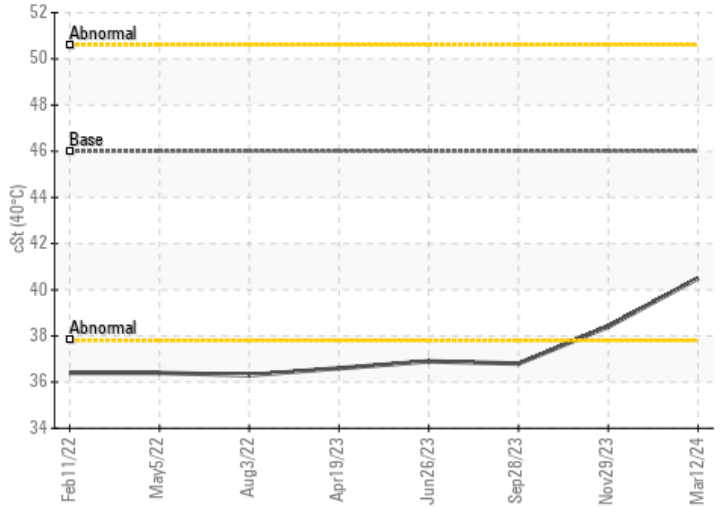
Ferrous Alloys



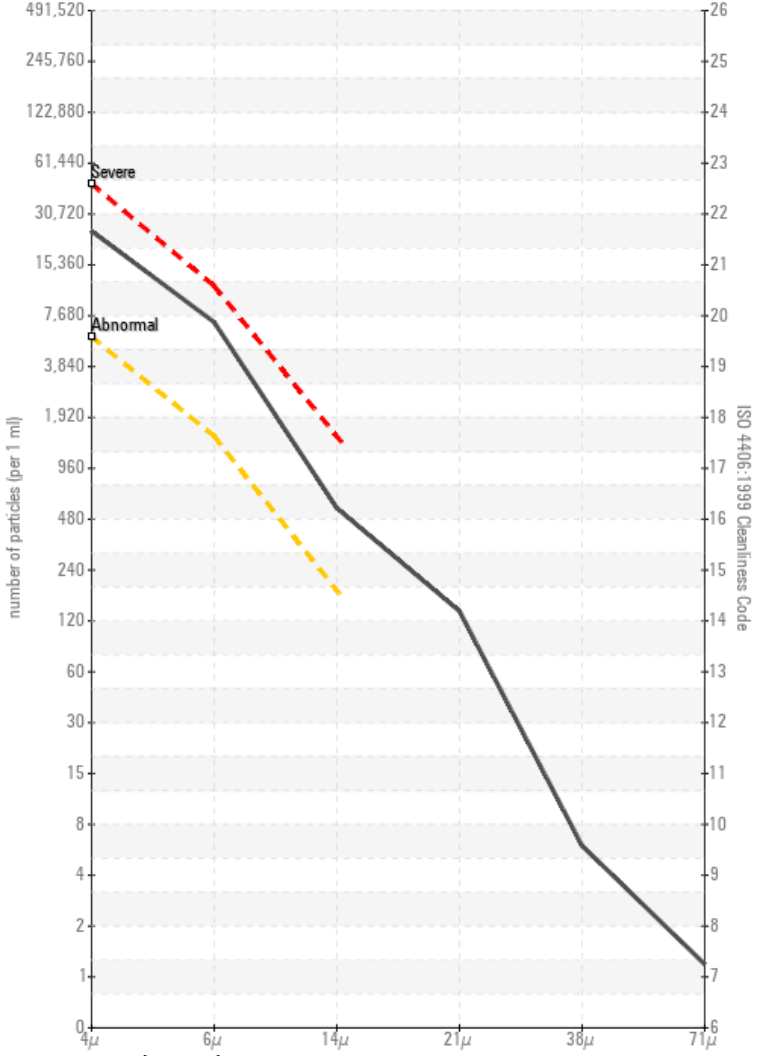
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

