



# CONSTRUCTION EQUIPMENT

## SPM566233 SENNEBOGEN 835ME 835.0.2859 - HYDRAULIC SYSTEM



**Sample No:** VCP423164  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM566233



### SAMPLE INFORMATION

Sample Number	<b>VCP423164</b>	VCP404298	VCP390834	VCP374978
Sample Date	<b>13 Jun 2023</b>	06 Apr 2023	12 Oct 2022	16 Jun 2022
Machine Hours	<b>4333</b>	3781	2517	1647
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>NORMAL</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>39.9</b>	40.5	36.0	35.8
Acid Number (AN)	mg KOH/g	<b>0.48</b>	0.62	0.90	0.99

### CONTAMINATION

Particles >4µm	<b>2704</b>	9616	12922	4480	
Particles >6µm	<b>394</b>	1944	2396	1026	
Particles >14µm	<b>18</b>	98	219	79	
ISO 4406:1999 (c)	<b>19/16/11</b>	20/18/14	21/18/15	19/17/13	
Silicon	ppm	<b>1</b>	<1	1	2
Sodium	ppm	<b>2</b>	<1	0	3
Potassium	ppm	<b>&lt;1</b>	0	2	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>9</b>	14	16	11
Copper	ppm	<b>1</b>	1	3	2
Lead	ppm	<b>&lt;1</b>	0	1	<1
Tin	ppm	<b>0</b>	0	<1	<1
Aluminum	ppm	<b>0</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	<1	0	0
Nickel	ppm	<b>&lt;1</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>263</b>	379	984	980
Magnesium	ppm	<b>2</b>	5	3	<1
Zinc	ppm	<b>457</b>	466	600	565
Phosphorus	ppm	<b>347</b>	395	489	453
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	<1

**Depot:** SIMCHIL  
**Unique No:** 10548650  
**Signed:** Wes Davis  
**Report Date:** 10 Jul 2023

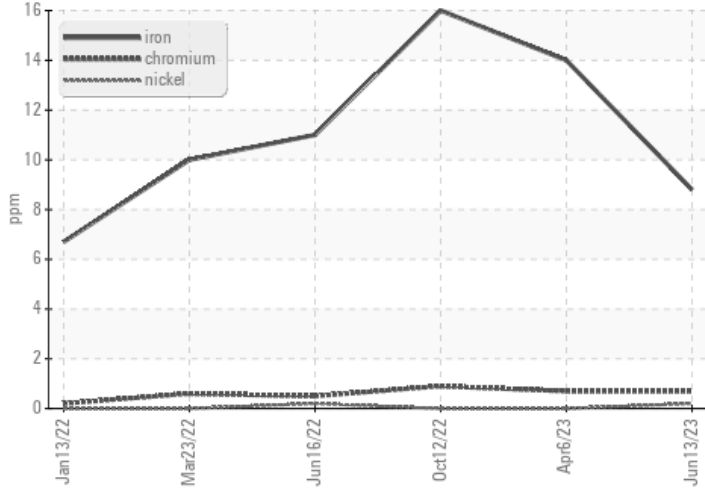


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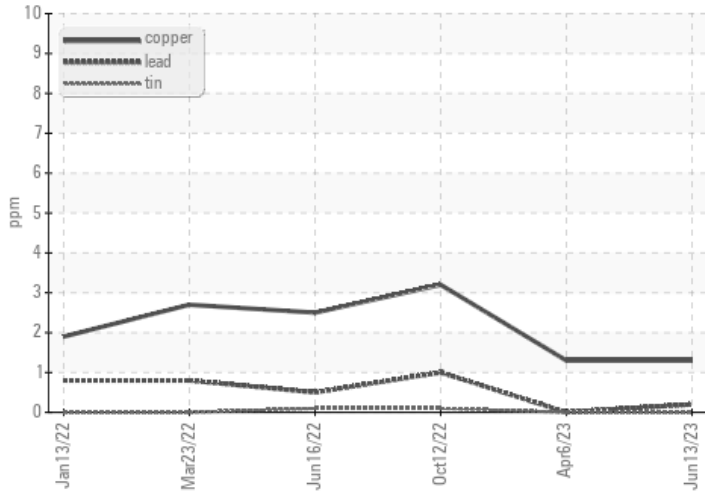


## GRAPHS

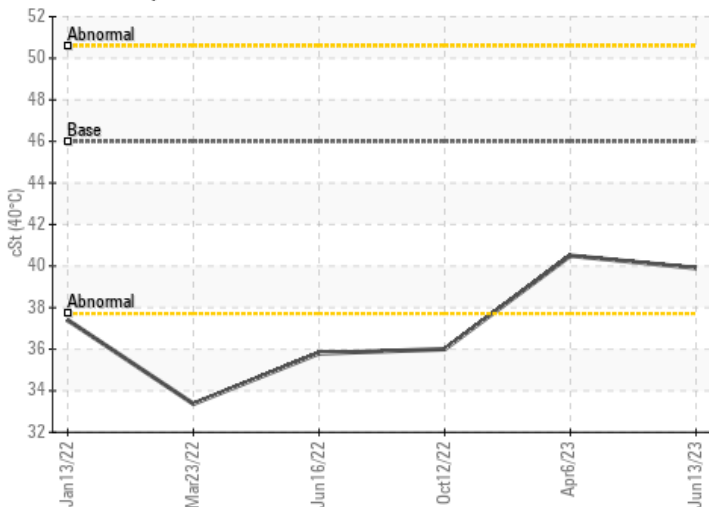
### Ferrous Alloys



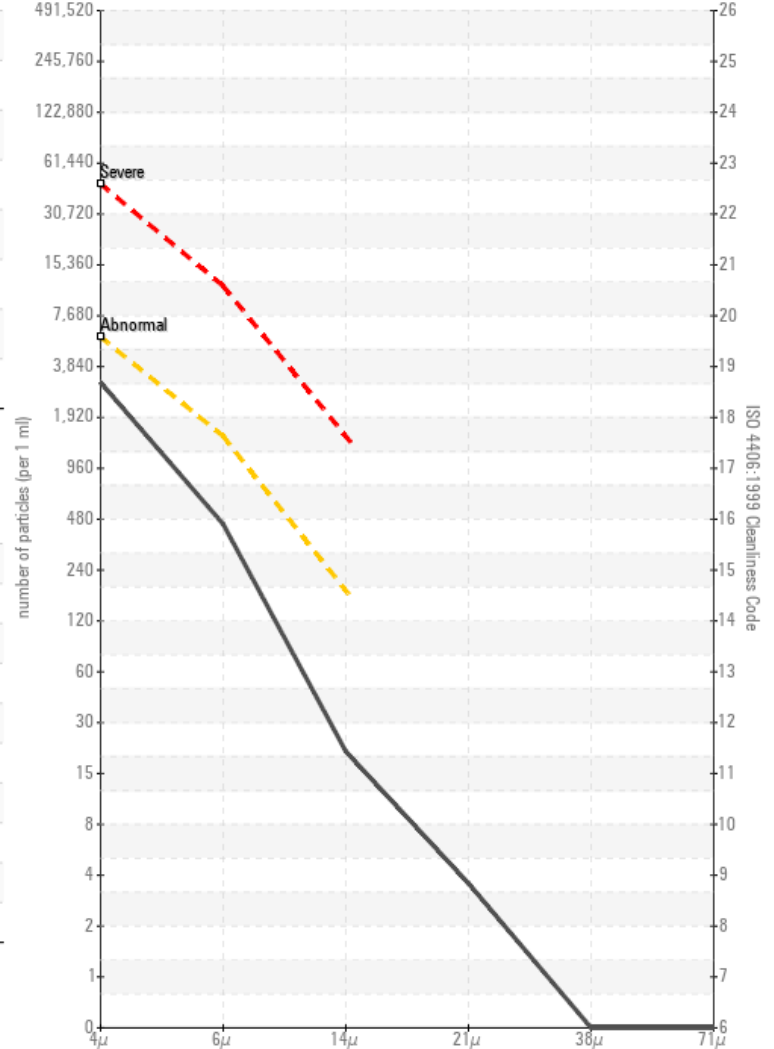
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

