



# CONSTRUCTION EQUIPMENT

## SPM645920 SENNEBOGEN 835ME 835.0.2902 - HYDRAULIC SYSTEM



**Sample No:** VCP050925  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM645920



### SAMPLE INFORMATION

Sample Number	<b>VCP050925</b>	VCP409266	VCP423182	VCP383262
Sample Date	<b>29 Nov 2023</b>	28 Sep 2023	26 Jun 2023	19 Apr 2023
Machine Hours	<b>5105</b>	4557	3988	3469
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Changed	Not Chngd	Not Chngd
Sample Status	<b>ATTENTION</b>	ABNORMAL	ATTENTION	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>38.4</b>	36.8	36.9	36.6
Acid Number (AN)	mg KOH/g	<b>0.89</b>	0.96	0.76	0.73

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>5410</b>	---	8028	6437
Particles >6µm		<b>823</b>	---	1976	1583
Particles >14µm		<b>29</b>	---	96	88
ISO 4406:1999 (c)		<b>20/17/12</b>	---	20/18/14	20/18/14
Silicon	ppm	<b>2</b>	4	3	2
Sodium	ppm	<b>7</b>	15	4	4
Potassium	ppm	<b>0</b>	0	<1	0

### Diagnosis

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 moderate amount of silt (particulates < 6 microns in size) 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	<b>21</b>	58	18	16
Copper	ppm	<b>6</b>	11	9	9
Lead	ppm	<b>&lt;1</b>	0	1	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>&lt;1</b>	1	<1	<1
Chromium	ppm	<b>4</b>	8	6	5
Molybdenum	ppm	<b>0</b>	0	<1	0
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	<1	<1	0
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>642</b>	721	770	804
Magnesium	ppm	<b>0</b>	3	3	3
Zinc	ppm	<b>514</b>	578	583	590
Phosphorus	ppm	<b>392</b>	467	456	487
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SIMCHIL  
**Unique No:** 10792954  
**Signed:** Jonathan Hester  
**Report Date:** 20 Dec 2023

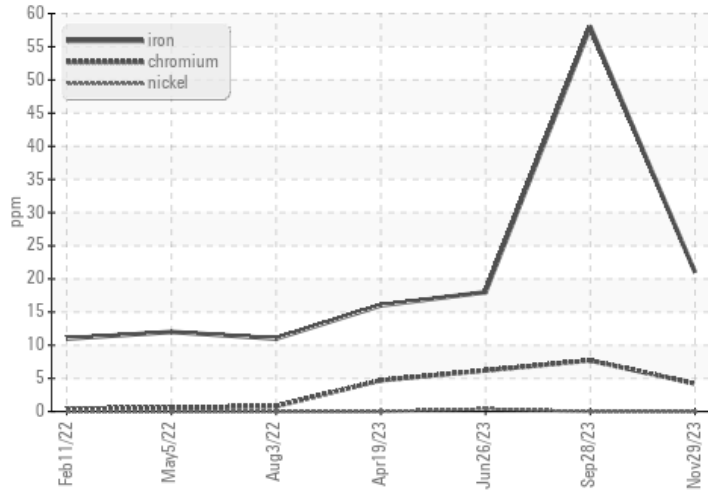


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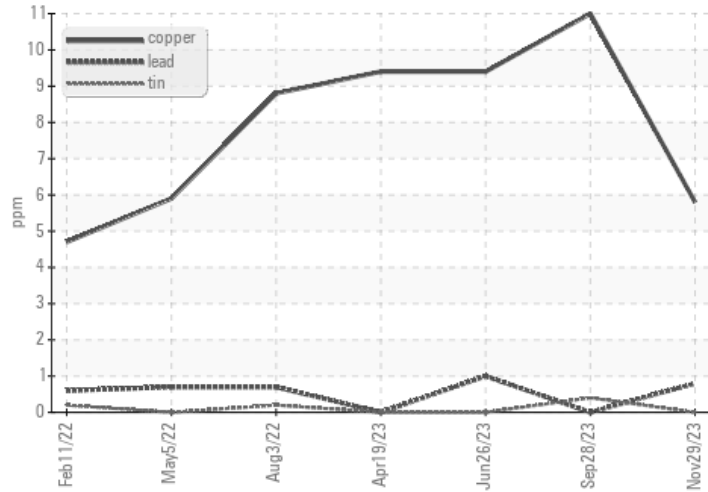


## GRAPHS

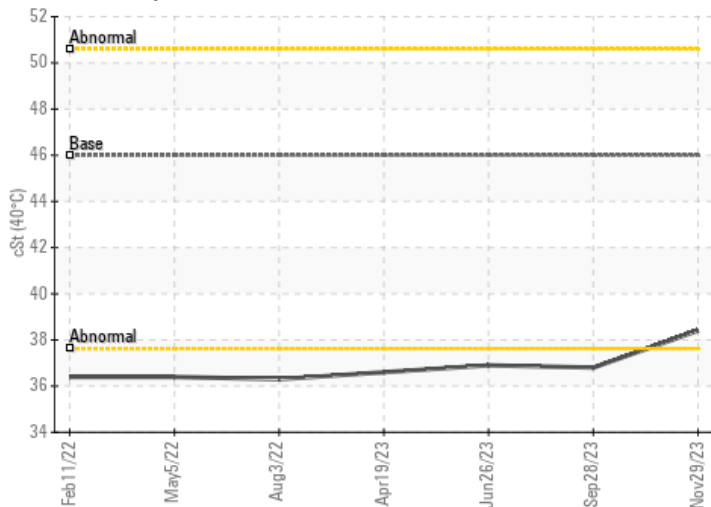
### Ferrous Alloys



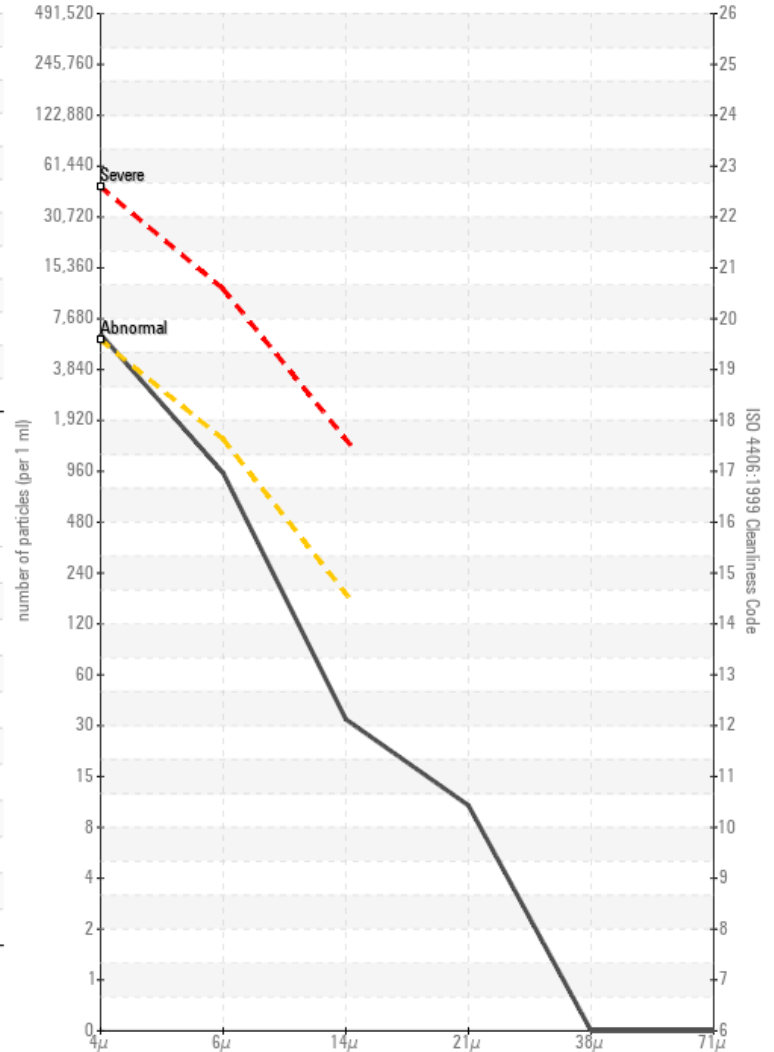
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

