



# CONSTRUCTION EQUIPMENT

SPM688692 SENNEBOGEN 835ME 835.0.2542 - HYDRAULIC SYSTEM



**Sample No:** VCP426407  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM688692



## SAMPLE INFORMATION

Sample Number	<b>VCP426407</b>	VCP404740	VCP387358	VCP364800
Sample Date	<b>01 Apr 2024</b>	04 Apr 2023	06 Dec 2022	22 Sep 2022
Machine Hours	<b>9624</b>	7921	7465	7036
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>SEVERE</b>	ATTENTION	NORMAL	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>45.8</b>	44.1	45.1	44.0
Acid Number (AN)	mg KOH/g	<b>0.43</b>	0.53	0.55	0.50



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>24004</b>	5709	4081	7531
Particles >6µm		<b>8337</b>	1100	665	825
Particles >14µm		<b>1181</b>	34	24	57
ISO 4406:1999 (c)		<b>22/20/17</b>	20/17/12	19/17/12	20/17/13
Silicon	ppm	<b>0</b>	<1	<1	<1
Sodium	ppm	<b>3</b>	2	2	3
Potassium	ppm	<b>1</b>	0	0	0



## WEAR METALS

Iron	ppm	<b>&lt;1</b>	6	6	5
Copper	ppm	<b>1</b>	2	2	2
Lead	ppm	<b>0</b>	0	0	0
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>0</b>	0	<1	<1
Chromium	ppm	<b>0</b>	<1	1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	<1
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>65</b>	131	140	139
Magnesium	ppm	<b>7</b>	28	33	34
Zinc	ppm	<b>418</b>	541	526	546
Phosphorus	ppm	<b>345</b>	438	432	446
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

## Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high amount of particulates (2 to 100 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.

**Depot:** SIMCHIL  
**Unique No:** 10989710  
**Signed:** Wes Davis  
**Report Date:** 22 Apr 2024

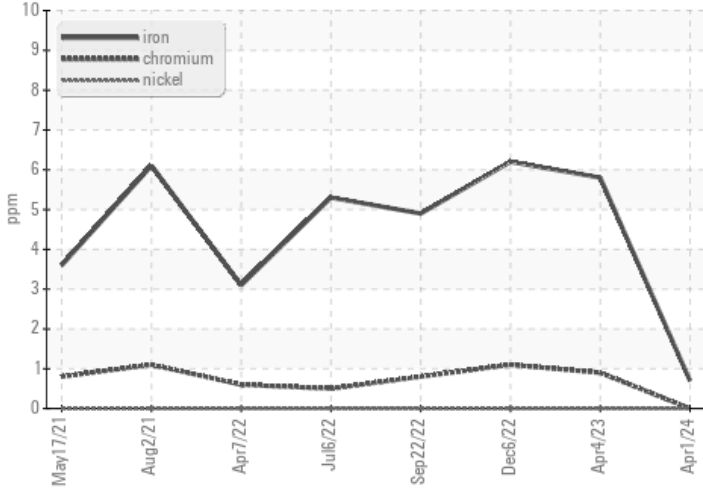


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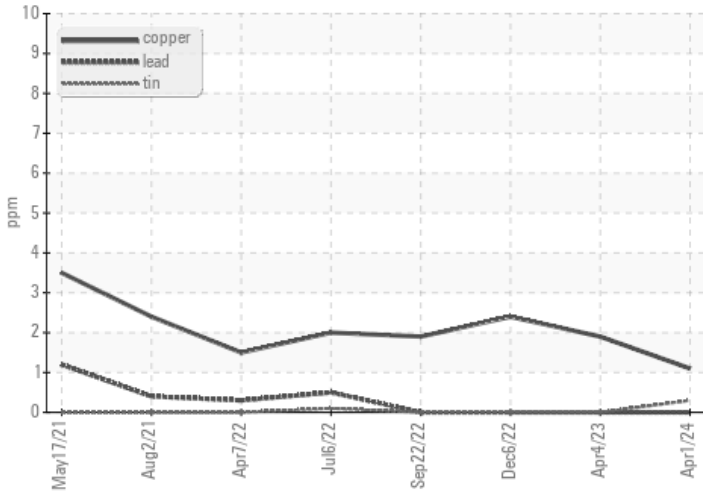


## GRAPHS

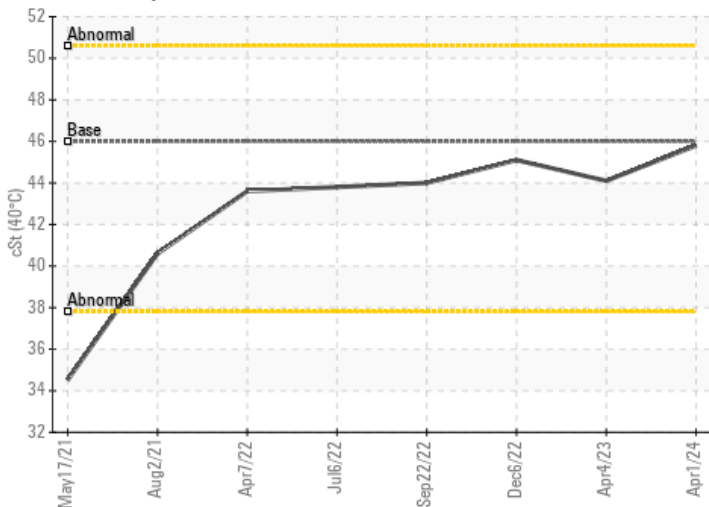
### Ferrous Alloys



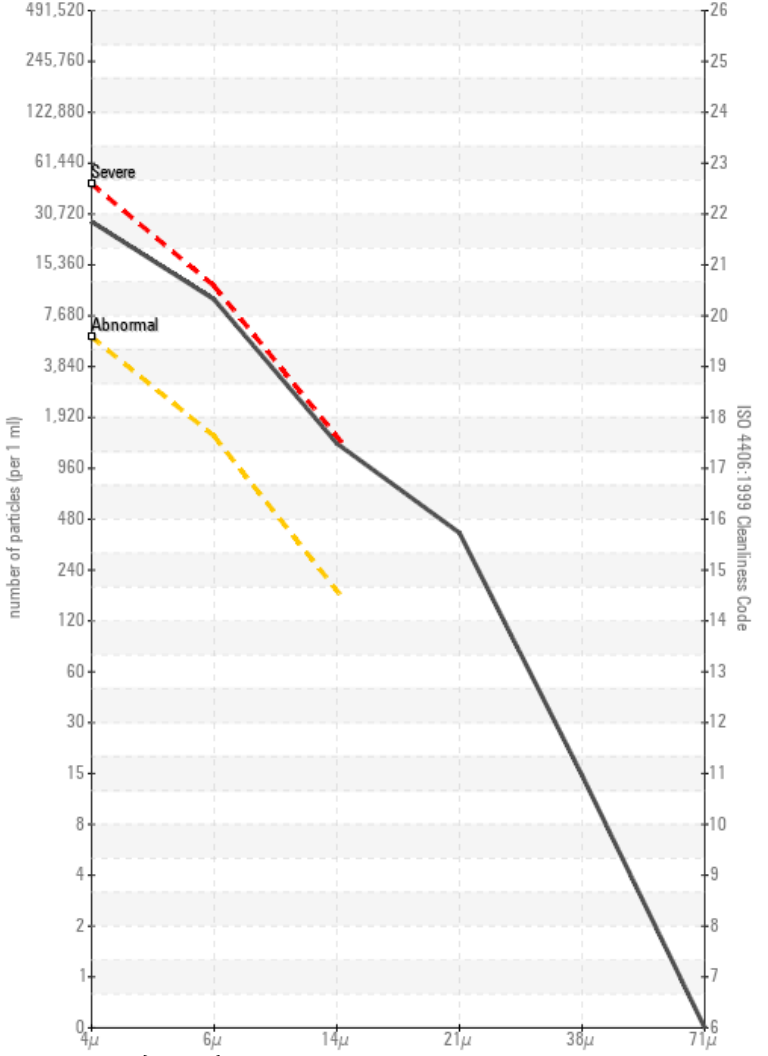
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

