



# CONSTRUCTION EQUIPMENT

## SPM646500 AMG RES SENNEBOGEN 835M 835.0.2002 - HYDRAULIC SYSTEM



**Sample No:** VCP435723  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM646500 AMG RES



### SAMPLE INFORMATION

Sample Number	<b>VCP435723</b>	VCP422576	VCP406710	VCP372283
Sample Date	<b>04 Jan 2024</b>	07 Jul 2023	14 Apr 2023	29 Jul 2022
Machine Hours	<b>15647</b>	8436	13746	11134
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.4</b>	43.1	43.1	43.5
Acid Number (AN)	mg KOH/g	<b>0.40</b>	0.31	0.30	0.33

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>▲ 13161</b>	1794	850	1561
Particles >6µm		<b>▲ 2146</b>	460	187	157
Particles >14µm		<b>99</b>	25	15	14
ISO 4406:1999 (c)		<b>21/18/14</b>	18/16/12	17/15/11	18/14/11
Silicon	ppm	<b>&lt;1</b>	<1	0	<1
Sodium	ppm	<b>3</b>	0	<1	<1
Potassium	ppm	<b>0</b>	2	0	0

### Diagnosis

We recommend you service the filters on this component. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of silt (particulates < 14 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.

### WEAR METALS

Iron	ppm	<b>4</b>	4	2	3
Copper	ppm	<b>2</b>	2	<1	<1
Lead	ppm	<b>0</b>	<1	0	0
Tin	ppm	<b>&lt;1</b>	0	0	<1
Aluminum	ppm	<b>0</b>	0	<1	<1
Chromium	ppm	<b>5</b>	5	5	3
Molybdenum	ppm	<b>&lt;1</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>	0	<1	0
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>59</b>	67	60	62
Magnesium	ppm	<b>2</b>	5	4	8
Zinc	ppm	<b>414</b>	482	434	467
Phosphorus	ppm	<b>338</b>	369	359	352
Barium	ppm	<b>0</b>	1	0	0
Boron	ppm	<b>0</b>	0	0	<1

**Depot:** VOLVO8885  
**Unique No:** 10882938  
**Signed:** Wes Davis  
**Report Date:** 16 Feb 2024

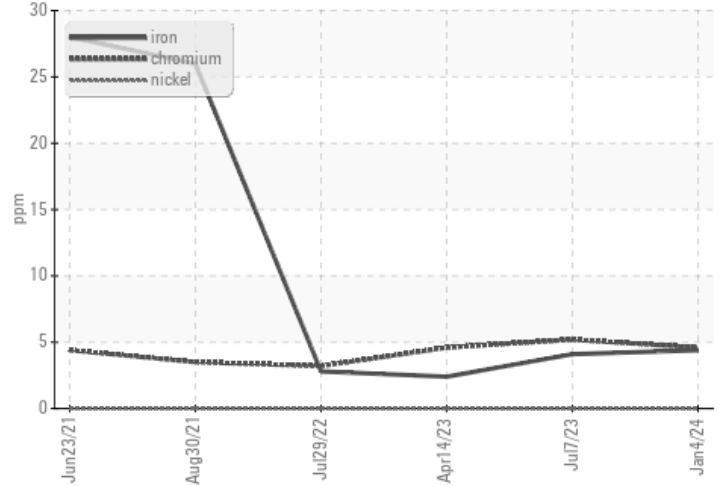


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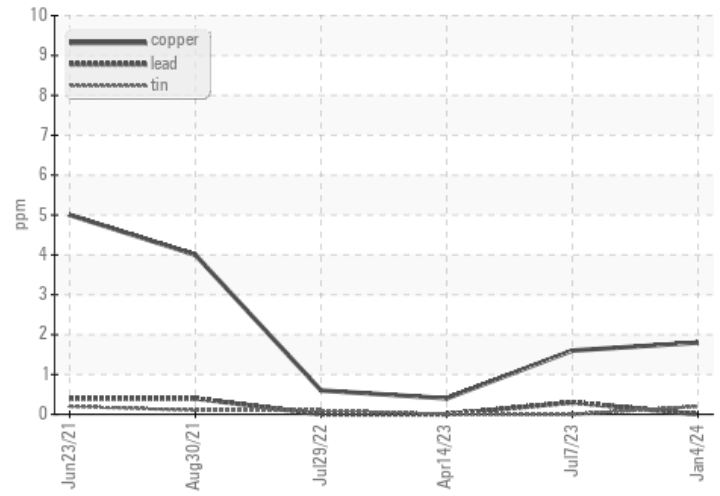


## GRAPHS

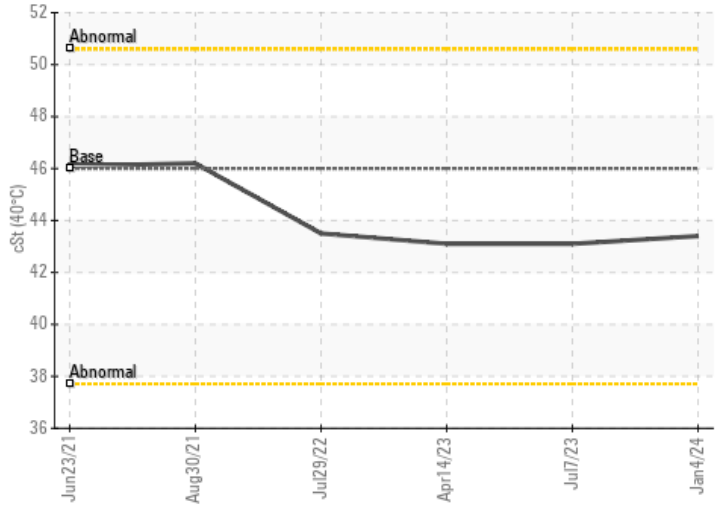
Ferrous Alloys



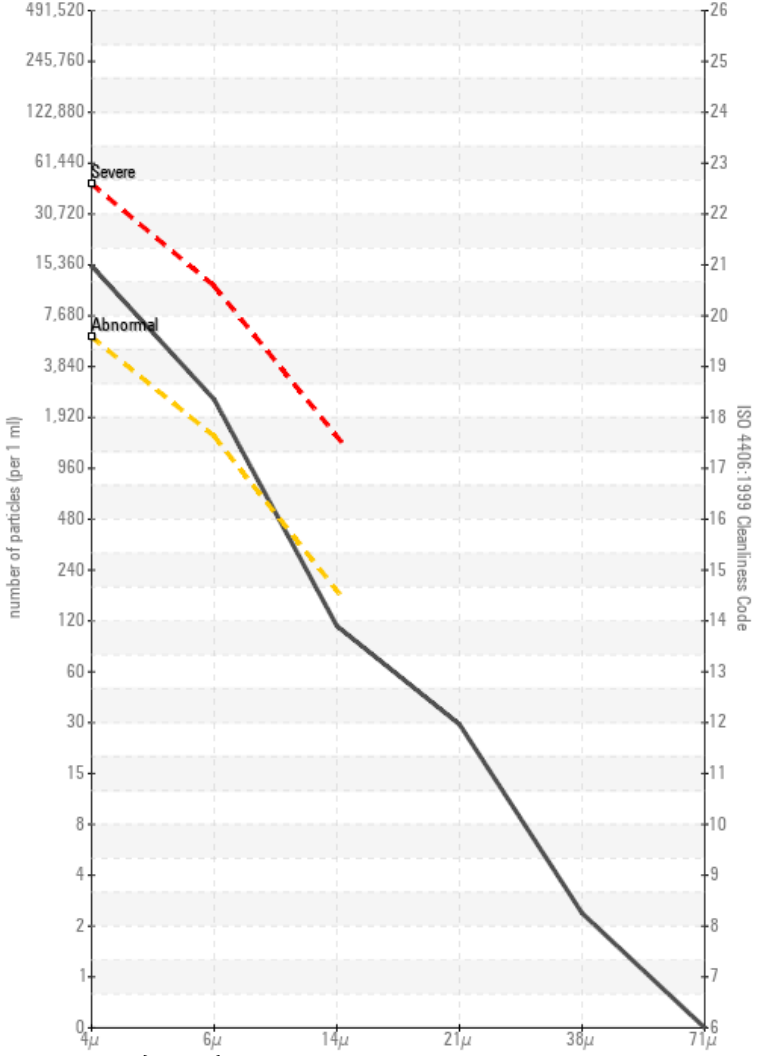
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

