



# CONSTRUCTION EQUIPMENT

## SWA560052-10 ALTER P SENNEBOGEN 835 835.0.2949 - HYDRAULIC SYSTEM



**Sample No:** VCP453547  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA560052-10 ALTER P



### SAMPLE INFORMATION

Sample Number	<b>VCP453547</b>	VCP434446	VCP396388	---
Sample Date	<b>17 May 2024</b>	01 Mar 2024	10 Oct 2023	---
Machine Hours	<b>5900</b>	5345	4362	---
Oil Hours	<b>2000</b>	5345	4362	---
Oil Changed	<b>Not Changed</b>	Not Changed	Changed	---
Sample Status	<b>ABNORMAL</b>	ATTENTION	ATTENTION	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>35.4</b>	34.9	33.16	---
Acid Number (AN)	mg KOH/g	<b>0.73</b>	0.89	0.99	---

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Particles >4µm		<b>▲ 12874</b>	■ 2600	■ 1049	---
Particles >6µm		<b>● 2402</b>	■ 811	■ 370	---
Particles >14µm		■ <b>100</b>	■ 55	■ 51	---
ISO 4406:1999 (c)		<b>21/18/14</b>	19/17/13	17/16/13	---
Silicon	ppm	■ <b>2</b>	■ <1	■ 2	---
Sodium	ppm	■ <b>9</b>	■ 7	■ 7	---
Potassium	ppm	■ <b>2</b>	■ 0	■ 0	---

### Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of silt (particulates < 14 microns in size) present in the oil. Viscosity of sample indicates oil is within ISO 32 range, advise investigate. Confirm oil type. The AN level is acceptable for this fluid.

### WEAR METALS

Iron	ppm	■ <b>7</b>	■ 5	■ 7	---
Copper	ppm	■ <b>2</b>	■ 2	■ 2	---
Lead	ppm	■ <b>&lt;1</b>	■ 0	■ <1	---
Tin	ppm	■ <b>0</b>	■ 0	■ 0	---
Aluminum	ppm	■ <b>&lt;1</b>	■ 0	■ 0	---
Chromium	ppm	■ <b>2</b>	■ <1	■ <1	---
Molybdenum	ppm	■ <b>0</b>	■ 0	0	---
Nickel	ppm	■ <b>0</b>	■ 0	■ 0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>&lt;1</b>	0	0	---
Manganese	ppm	■ <b>&lt;1</b>	■ 0	0	---
Vanadium	ppm	<b>0</b>	0	0	---

### ADDITIVES

Calcium	ppm	<b>763</b>	714	1197	---
Magnesium	ppm	■ <b>3</b>	■ 0	8	---
Zinc	ppm	■ <b>589</b>	■ 478	679	---
Phosphorus	ppm	■ <b>497</b>	■ 377	562	---
Barium	ppm	■ <b>&lt;1</b>	■ 0	0	---
Boron	ppm	■ <b>0</b>	■ 0	0	---

**Depot:** VOLVO5054  
**Unique No:** 11045873  
**Signed:** Don Baldrige  
**Report Date:** 28 May 2024

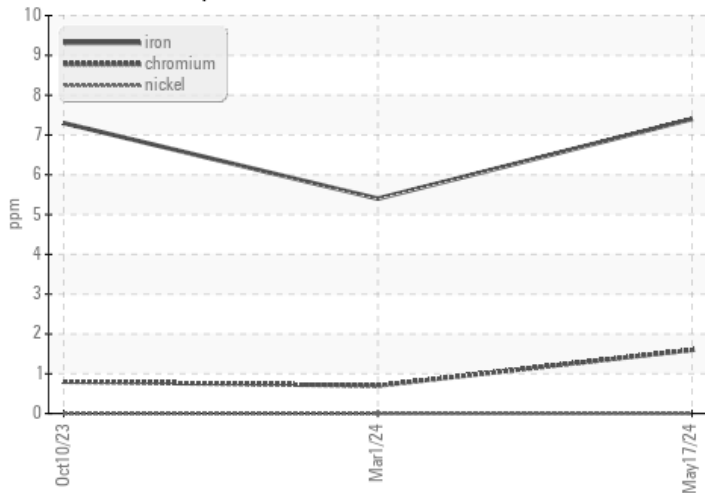


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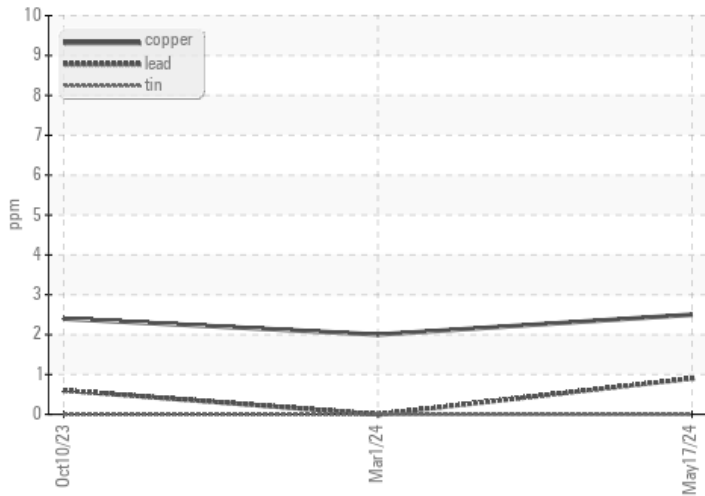


## GRAPHS

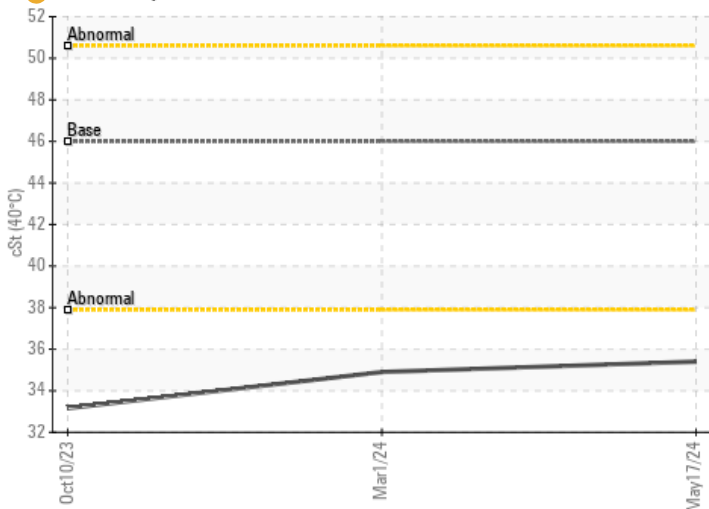
### Ferrous Alloys



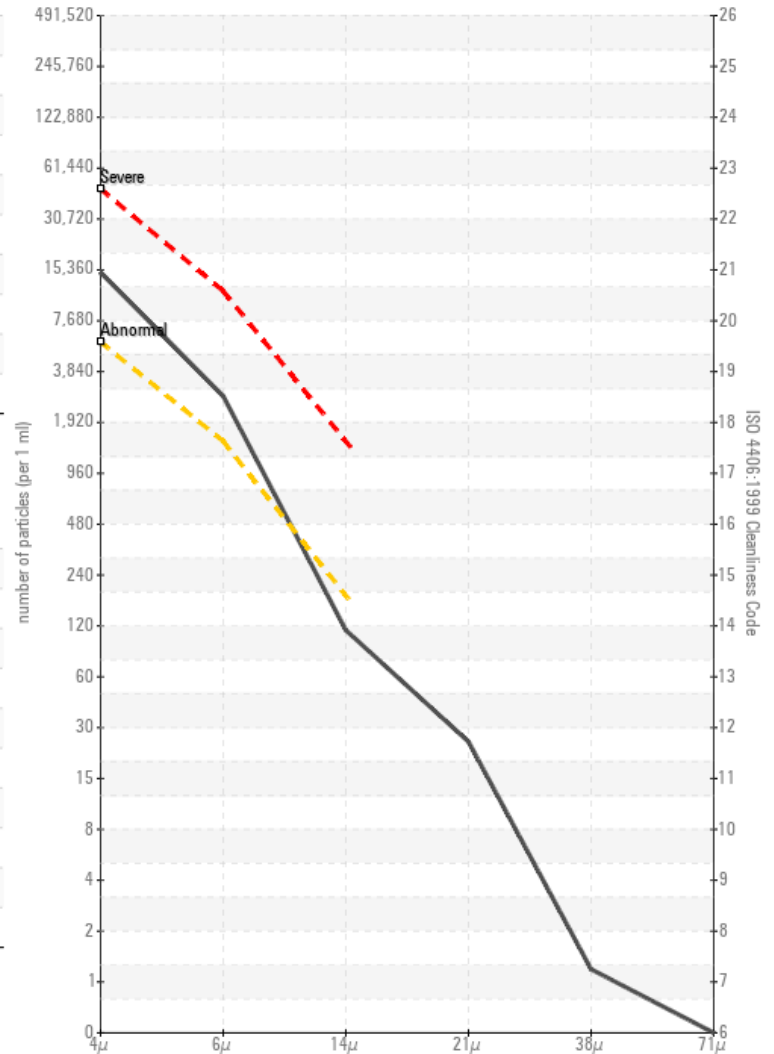
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

