



# CONSTRUCTION EQUIPMENT

## SPM580672 MILBURN DE VOLVO EC300DL 210200 - HYDRAULIC SYSTEM



**Sample No:** VCP420695  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SPM580672 MILBURN DE



### SAMPLE INFORMATION

Sample Number	<b>VCP420695</b>	VCP343319	VCP285746	---
Sample Date	<b>12 Sep 2023</b>	24 Jan 2022	22 Aug 2020	---
Machine Hours	<b>5950</b>	5355	4200	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Not Changd	Changed	---
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	---

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.4</b>	43.5	43.3	---
Acid Number (AN)	mg KOH/g	<b>0.60</b>	0.668	0.864	---



### CONTAMINATION

Particles >4µm		---	8273	133038	---
Particles >6µm		---	190	42139	---
Particles >14µm		---	11	6312	---
ISO 4406:1999 (c)		---	20/15/11	24/23/20	---
Silicon	ppm	<b>8</b>	4	5	---
Sodium	ppm	<b>2</b>	0	1	---
Potassium	ppm	<b>&lt;1</b>	<1	<1	---

### Diagnosis

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris 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>9</b>	7	8	---
Copper	ppm	<b>24</b>	17	32	---
Lead	ppm	<b>&lt;1</b>	<1	1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>&lt;1</b>	0	0	---
Chromium	ppm	<b>5</b>	4	3	---
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	<1	---
Silver	ppm	<b>0</b>	0	<1	---
Manganese	ppm	<b>&lt;1</b>	0	<1	---
Vanadium	ppm	<b>0</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>610</b>	156	241	---
Magnesium	ppm	<b>10</b>	7	0	---
Zinc	ppm	<b>1008</b>	909	851	---
Phosphorus	ppm	<b>778</b>	742	696	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>15</b>	2	5	---

**Depot:** VOLVO8885  
**Unique No:** 10658209  
**Signed:** Don Baldrige  
**Report Date:** 22 Sep 2023

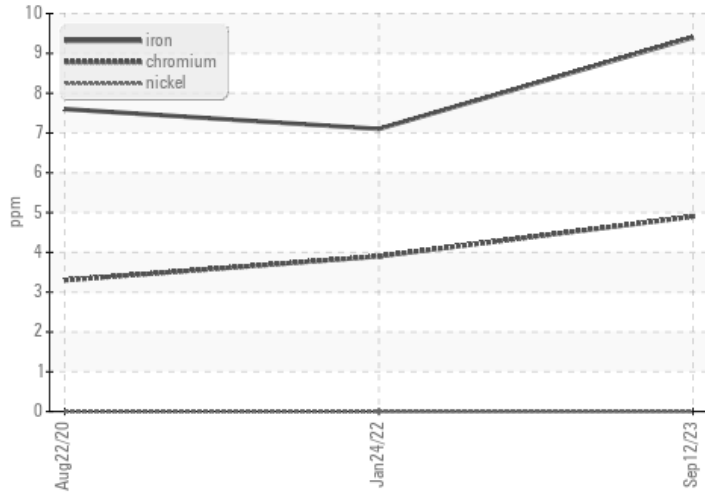


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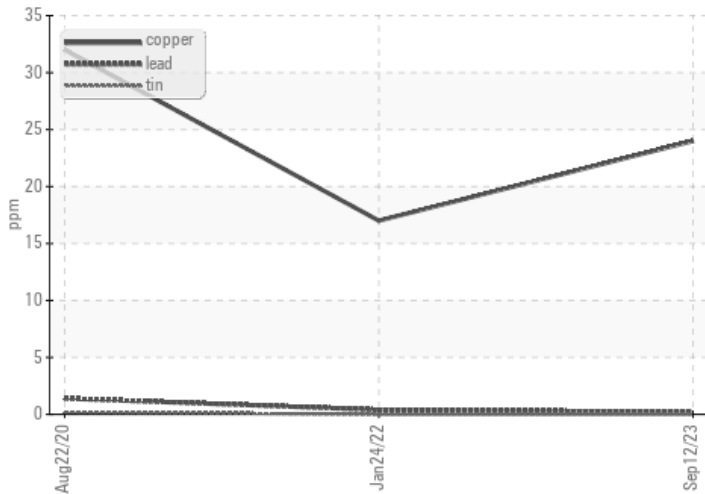


## GRAPHS

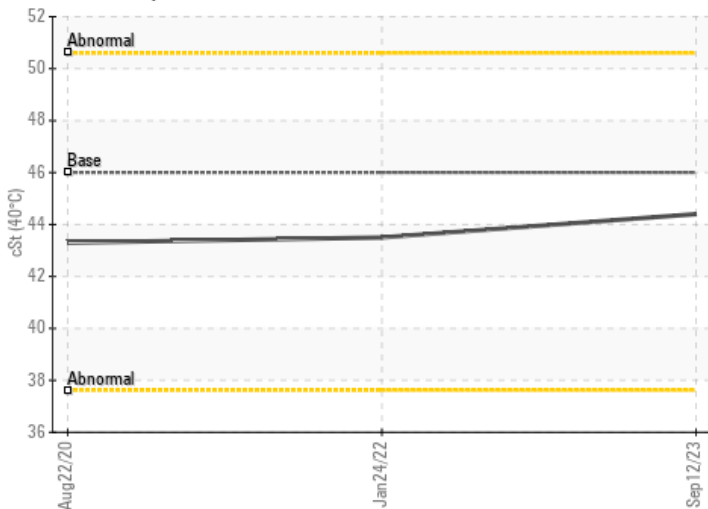
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

