



# CONSTRUCTION EQUIPMENT

## 687521 APTIM VOLVO A35G 340236 - HYDRAULIC SYSTEM



**Sample No:** VCP437933  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 687521 APTIM



### SAMPLE INFORMATION

Sample Number	<b>VCP437933</b>	VCP444139	VCP410231	VCP354021
Sample Date	<b>12 Mar 2024</b>	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	<b>8945</b>	7992	6888	5673
Oil Hours	<b>3000</b>	4000	4000	1600
Oil Changed	<b>Not Chngd</b>	Changed	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	ABNORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>41.2</b>	40.8	40.3	39.4
Acid Number (AN)	mg KOH/g	<b>0.44</b>	0.45	0.42	0.43



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>3040</b>	5442	---	3968
Particles >6µm		<b>781</b>	847	---	609
Particles >14µm		<b>56</b>	21	---	25
ISO 4406:1999 (c)		<b>19/17/13</b>	20/17/12	---	19/16/12
Silicon	ppm	<b>4</b>	5	4	4
Sodium	ppm	<b>4</b>	4	3	3
Potassium	ppm	<b>0</b>	<1	0	0

### Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>14</b>	18	18	16
Copper	ppm	<b>8</b>	20	18	22
Lead	ppm	<b>2</b>	3	2	4
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>&lt;1</b>	2	0	1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	5	4	<1
Nickel	ppm	<b>0</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>91</b>	186	177	151
Magnesium	ppm	<b>9</b>	17	12	2
Zinc	ppm	<b>367</b>	431	412	446
Phosphorus	ppm	<b>290</b>	279	343	337
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>0</b>	4	4	1

**Depot:** VOLVO0093  
**Unique No:** 10975873  
**Signed:** Wes Davis  
**Report Date:** 12 Apr 2024

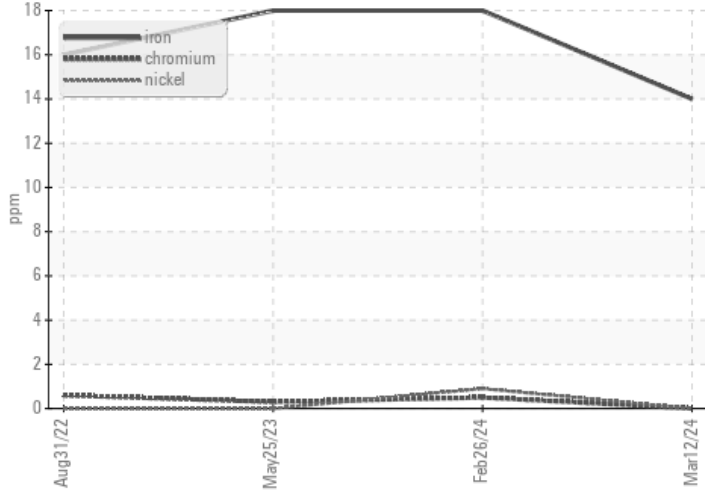


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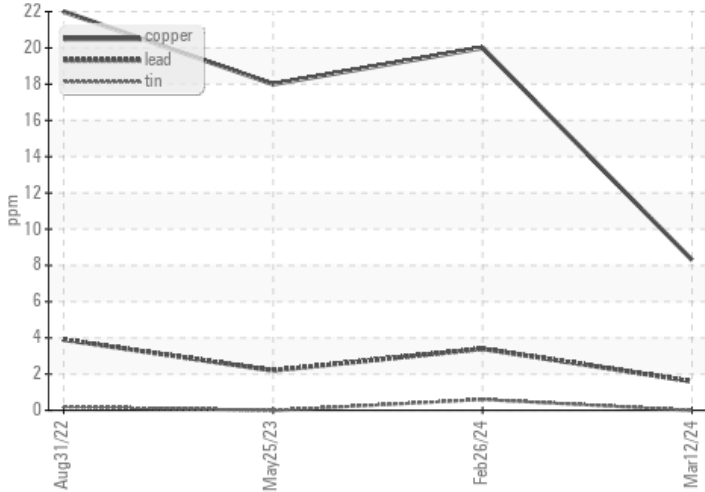


## GRAPHS

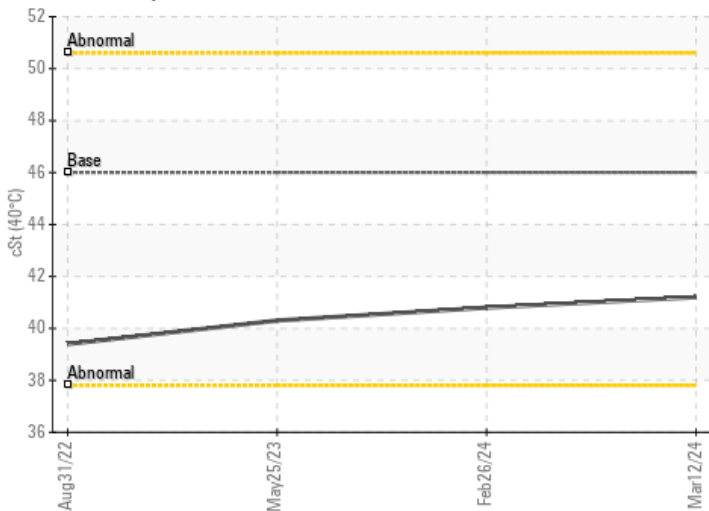
### Ferrous Alloys



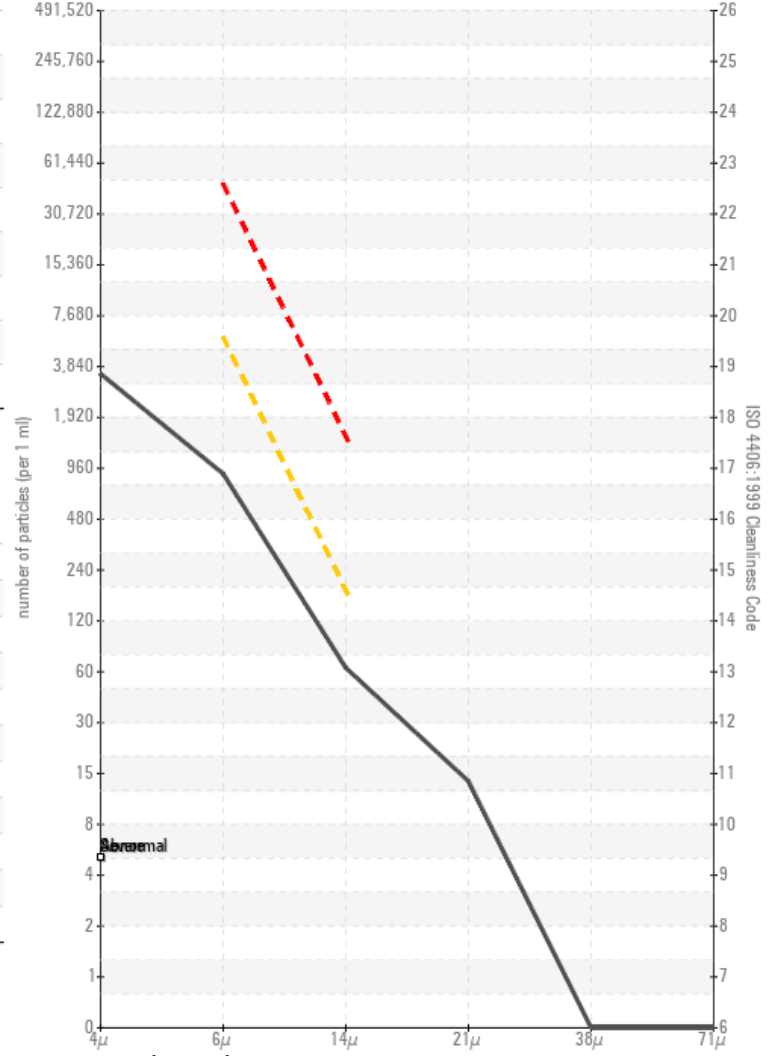
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

