



# CONSTRUCTION EQUIPMENT

## 607508 PRIMORIS VOLVO A40G 352491 - HYDRAULIC SYSTEM



**Sample No:** VCP414718  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 607508 PRIMORIS



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### SAMPLE INFORMATION

Sample Number	<b>VCP414718</b>	VCP411350	VCP364301	VCP329328
Sample Date	<b>22 Sep 2023</b>	25 Apr 2023	15 Aug 2022	14 Sep 2021
Machine Hours	<b>4299</b>	3617	2635	1219
Oil Hours	<b>4299</b>	3617	500	1500
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	ABNORMAL	ATTENTION	NORMAL



### OIL CONDITION

Visc @ 40°C	cSt	<b>44.4</b>	44.4	43.9	44.5
Acid Number (AN)	mg KOH/g	<b>0.42</b>	0.41	0.44	0.513



### CONTAMINATION

Particles >4µm		<b>600</b>	---	20394	4629
Particles >6µm		<b>91</b>	---	▲ 5126	904
Particles >14µm		<b>9</b>	---	▲ 266	43
ISO 4406:1999 (c)		<b>16/14/10</b>	---	22/20/15	19/17/13
Silicon	ppm	<b>8</b>	8	6	7
Sodium	ppm	<b>3</b>	3	<1	1
Potassium	ppm	<b>1</b>	<1	0	0



### WEAR METALS

Iron	ppm	<b>6</b>	8	6	4
Copper	ppm	<b>1</b>	3	4	1
Lead	ppm	<b>5</b>	4	3	5
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>0</b>	<1	<1	0
Nickel	ppm	<b>&lt;1</b>	0	<1	<1
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	<1	<1	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>259</b>	271	81	67
Magnesium	ppm	<b>6</b>	13	2	<1
Zinc	ppm	<b>521</b>	508	408	425
Phosphorus	ppm	<b>394</b>	407	332	348
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	<1

### 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.

**Depot:** VOLVO0093  
**Unique No:** 10709062  
**Signed:** Wes Davis  
**Report Date:** 24 Oct 2023

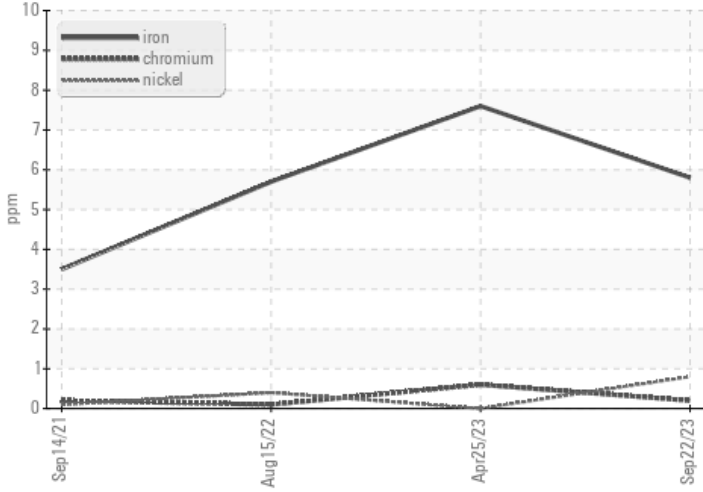


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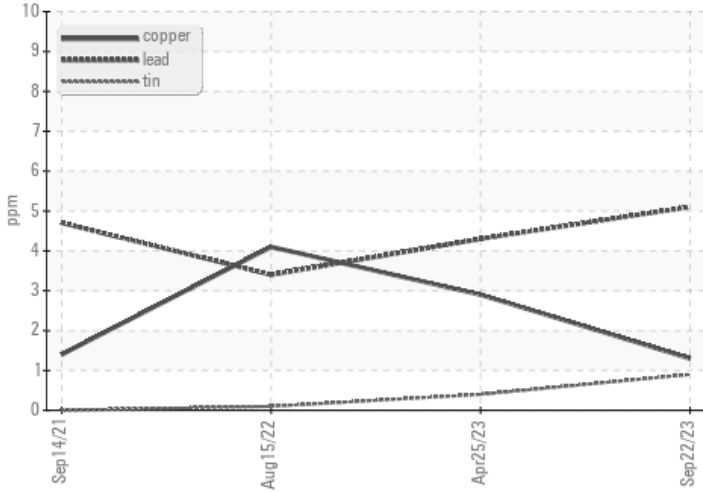


## GRAPHS

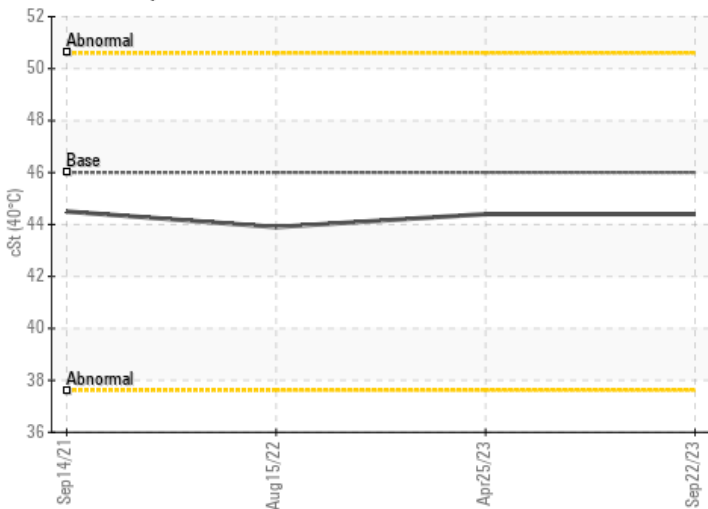
### Ferrous Alloys



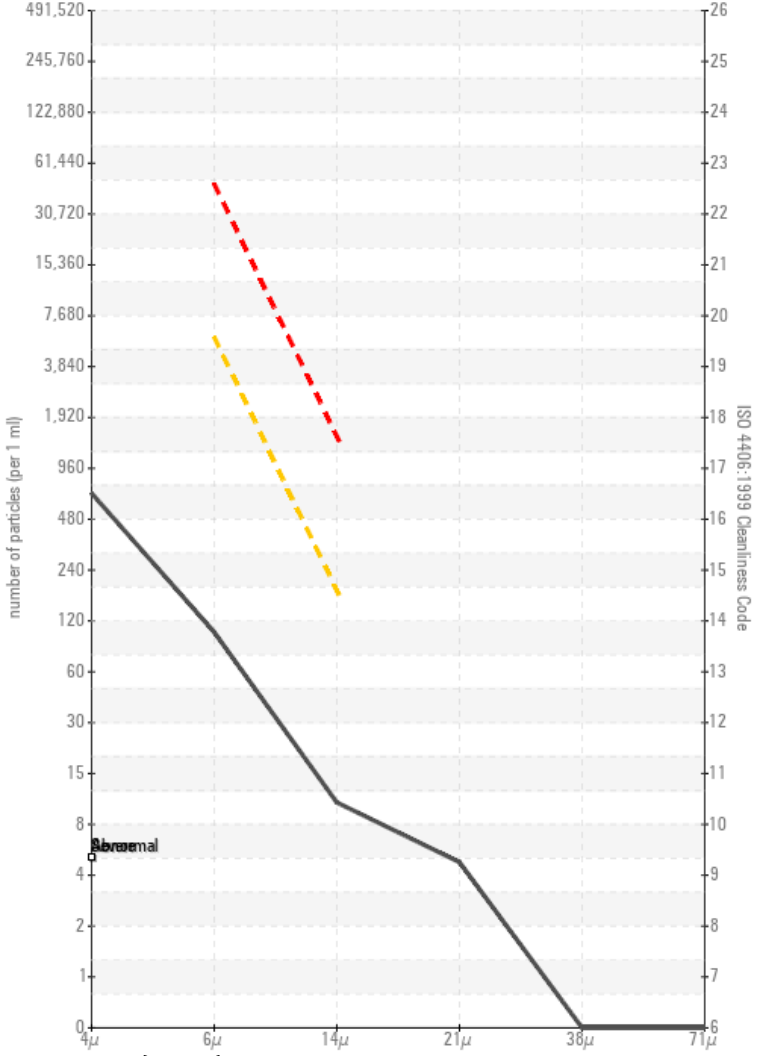
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

