



# CONSTRUCTION EQUIPMENT

## 590794 ASH GROVE VOLVO A40G 352940 - HYDRAULIC SYSTEM



**Sample No:** VCP447367  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 590794 ASH GROVE



### SAMPLE INFORMATION

Sample Number	<b>VCP447367</b>	VCP440294	VCP411709	VCP399003
Sample Date	<b>19 Jun 2024</b>	26 Sep 2023	30 May 2023	20 Dec 2022
Machine Hours	<b>9064</b>	6962	5463	3441
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Changed	Not Chngd
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>48.0</b>	50.0	53.0	43.5
Acid Number (AN)	mg KOH/g	<b>0.53</b>	0.54	0.73	0.33



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>12270</b>	---	1370	2627
Particles >6µm		<b>3843</b>	---	193	418
Particles >14µm		<b>154</b>	---	14	26
ISO 4406:1999 (c)		<b>21/19/14</b>	---	18/15/11	19/16/12
Silicon	ppm	<b>5</b>	4	7	4
Sodium	ppm	<b>2</b>	<1	0	<1
Potassium	ppm	<b>2</b>	0	1	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>6</b>	5	6	6
Copper	ppm	<b>2</b>	1	2	2
Lead	ppm	<b>2</b>	1	1	1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	0	<1
Chromium	ppm	<b>0</b>	0	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	1	2	0
Nickel	ppm	<b>&lt;1</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	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>599</b>	610	1103	69
Magnesium	ppm	<b>11</b>	12	12	<1
Zinc	ppm	<b>587</b>	545	680	438
Phosphorus	ppm	<b>475</b>	454	522	346
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>2</b>	0	0	0

**Depot:** VOLVO0096  
**Unique No:** 11096293  
**Signed:** Wes Davis  
**Report Date:** 25 Jun 2024

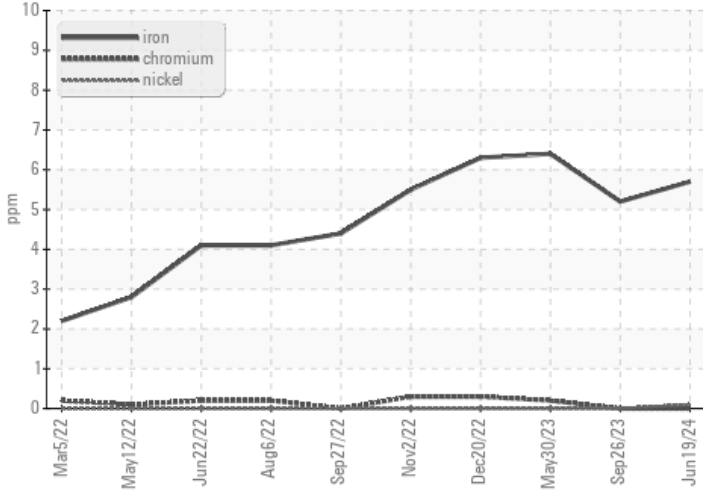


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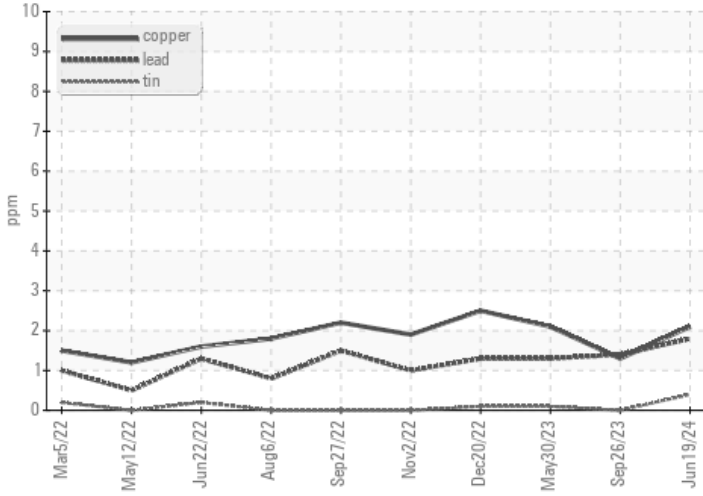


## GRAPHS

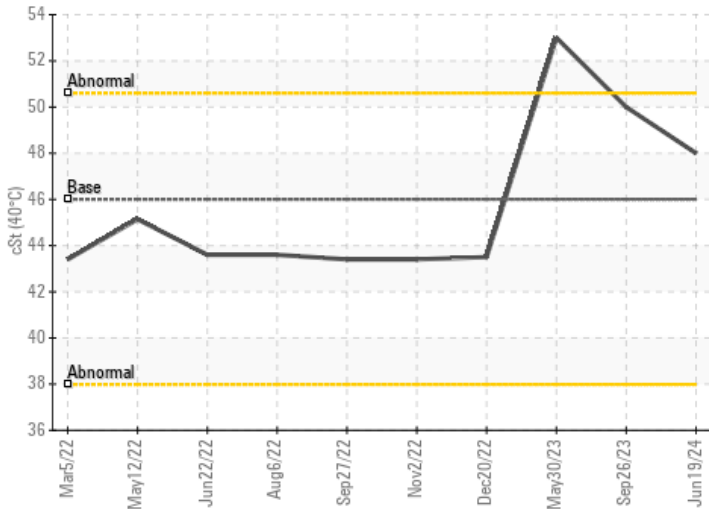
### Ferrous Alloys



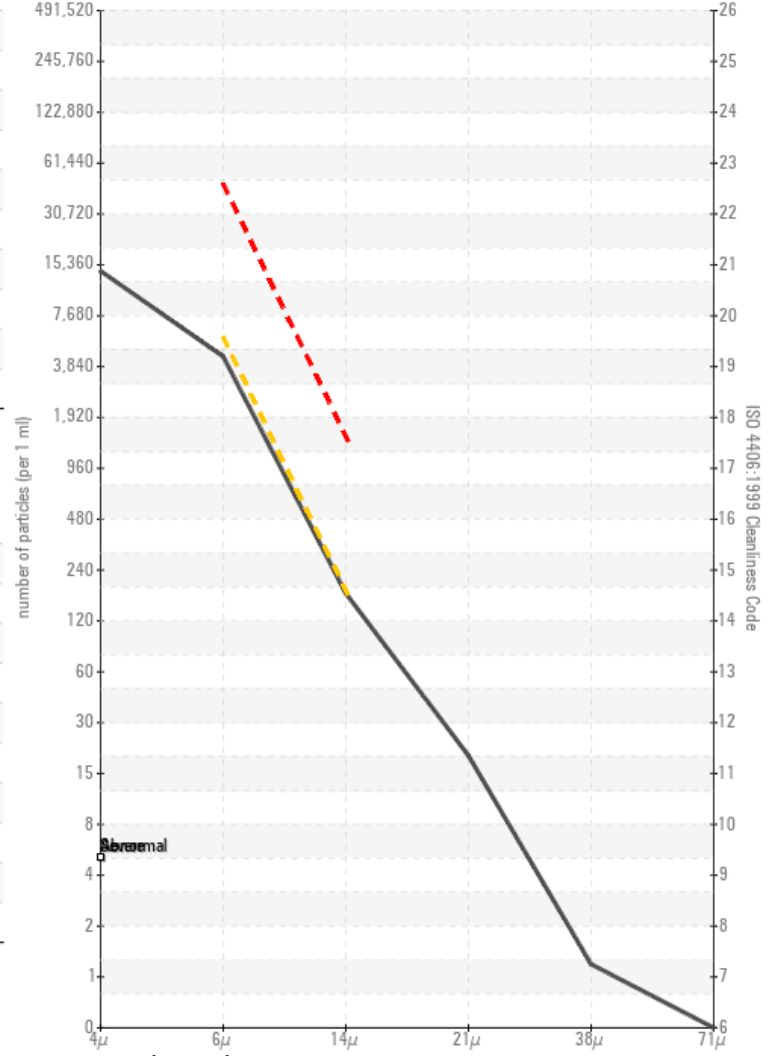
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

