



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 742023 - HYDRAULIC SYSTEM



**Sample No:** VCP440672  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP440672</b>	VCP425797	VCP394041	VCP359386
Sample Date	<b>01 Apr 2024</b>	11 Sep 2023	08 Mar 2023	20 Apr 2022
Machine Hours	<b>9289</b>	8246	7220	6218
Oil Hours	<b>0</b>	4000	1500	2000
Oil Changed	<b>N/A</b>	Changed	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**RIPA AND ASSOCIATES**  
 10149 FISHER AVENUE  
 TAMPA, FL  
 US 33619  
 Contact: PM Services  
 PMServices@ripaconstruction.com  
 T:  
 F:



### OIL CONDITION

Visc @ 40°C	cSt	<b>51.9</b>	47.3	46.1	46.5
Acid Number (AN)	mg KOH/g	<b>0.47</b>	0.35	0.37	0.45



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>3252</b>	1378	1987	6585
Particles >6µm		<b>1030</b>	62	407	1373
Particles >14µm		<b>128</b>	6	20	78
ISO 4406:1999 (c)		<b>19/17/14</b>	18/13/10	18/16/11	20/18/13
Silicon	ppm	<b>3</b>	4	5	3
Sodium	ppm	<b>3</b>	2	2	0
Potassium	ppm	<b>2</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.



### WEAR METALS

Iron	ppm	<b>6</b>	14	10	7
Copper	ppm	<b>2</b>	3	2	3
Lead	ppm	<b>1</b>	0	0	1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>1</b>	<1	1	1
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>7</b>	2	2	2
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>&lt;1</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	0	<1	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>229</b>	115	111	136
Magnesium	ppm	<b>8</b>	15	21	16
Zinc	ppm	<b>510</b>	462	456	437
Phosphorus	ppm	<b>412</b>	369	367	331
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>5</b>	<1	<1	4

**Depot:** RIPTAM  
**Unique No:** 11056050  
**Signed:** Angela Borella  
**Report Date:** 31 May 2024

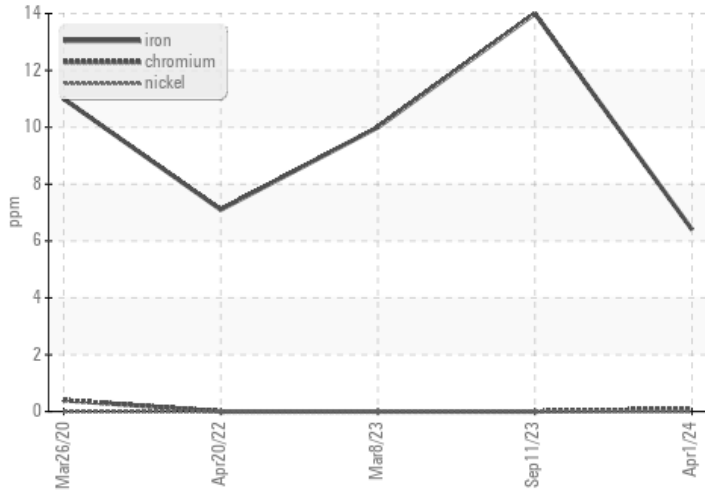


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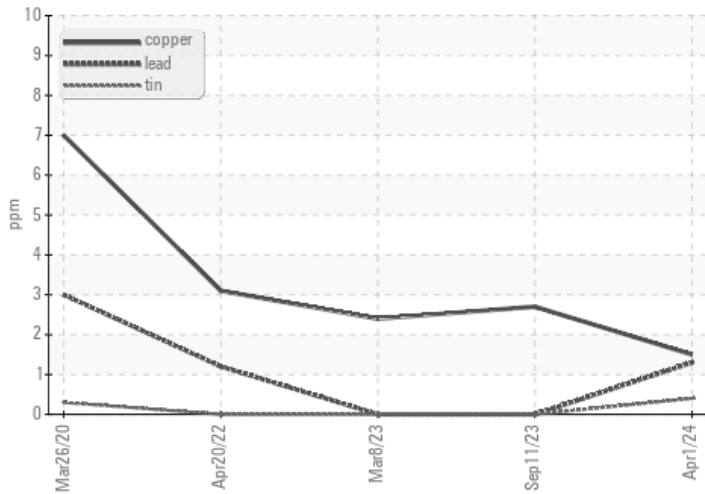


## GRAPHS

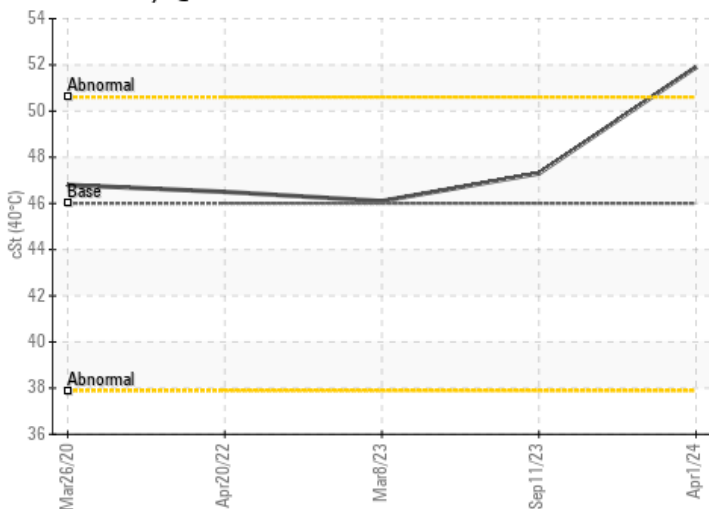
### Ferrous Alloys



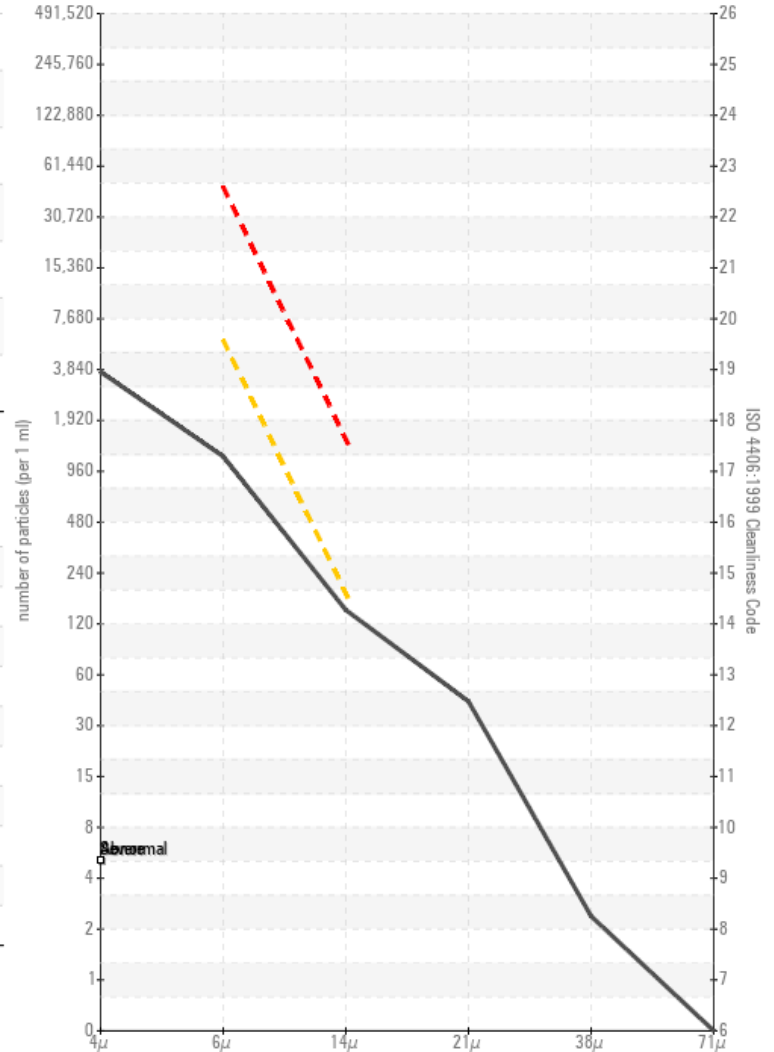
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

