



# CONSTRUCTION EQUIPMENT

## 540313 VOLVO A30G 742111 - HYDRAULIC SYSTEM



**Sample No:** VCP423533  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** 540313



### SAMPLE INFORMATION

Sample Number	<b>VCP423533</b>	VCP376239	VCP327833	VCP301584
Sample Date	<b>22 Apr 2023</b>	01 Aug 2022	29 Sep 2021	09 Feb 2021
Machine Hours	<b>9166</b>	8256	6452	5305
Oil Hours	<b>1000</b>	4000	1500	1000
Oil Changed	<b>Not Changed</b>	Changed	Changed	Not Changed
Sample Status	<b>ABNORMAL</b>	NORMAL	ABNORMAL	NORMAL

### RIPA AND ASSOCIATES

10149 FISHER AVENUE  
TAMPA, FL  
US 33619  
Contact: ROBERT TURNER  
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T:  
F:

### OIL CONDITION

Visc @ 40°C	cSt	<b>47.7</b>	45.2	45.5	46.0
Acid Number (AN)	mg KOH/g	<b>0.33</b>	0.35	0.422	0.211

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		---	1495	---	2399
Particles >6µm		---	400	---	687
Particles >14µm		---	51	---	57
ISO 4406:1999 (c)		---	18/16/13	---	18/17/13
Silicon	ppm	<b>3</b>	5	4	4
Sodium	ppm	<b>6</b>	3	4	<1
Potassium	ppm	<b>1</b>	0	0	0

### Diagnosis

The 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 metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

### WEAR METALS

Iron	ppm	<b>11</b>	22	15	12
Copper	ppm	<b>3</b>	8	7	6
Lead	ppm	<b>2</b>	2	2	2
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>0</b>	3	2	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>2</b>	2	1	1
Nickel	ppm	<b>&lt;1</b>	<1	0	0
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>245</b>	113	111	111
Magnesium	ppm	<b>10</b>	10	11	12
Zinc	ppm	<b>531</b>	464	403	452
Phosphorus	ppm	<b>417</b>	371	328	367
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>5</b>	5	0	2

**Depot:** RIPTAM  
**Unique No:** 10467326  
**Signed:** Don Baldrige  
**Report Date:** 12 May 2023

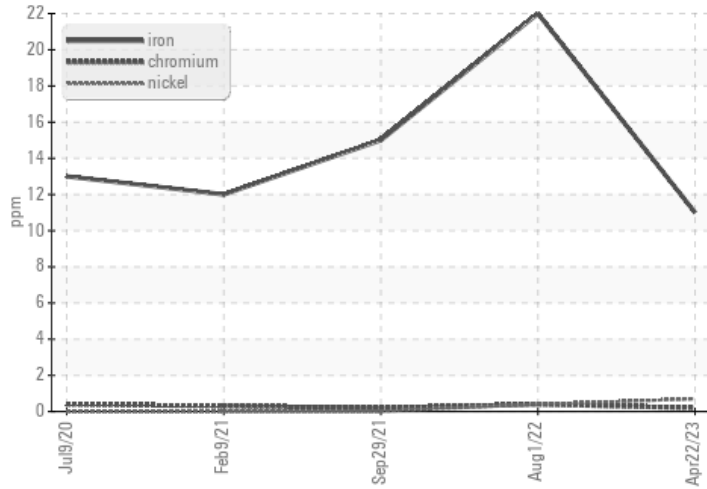


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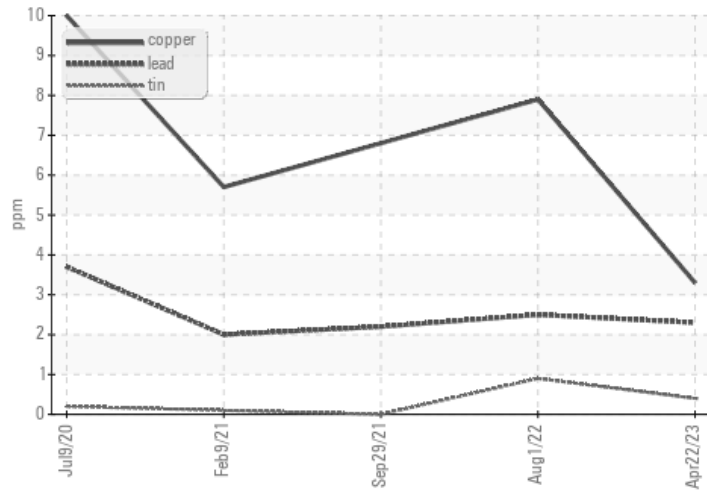


## VOLVO GRAPHS

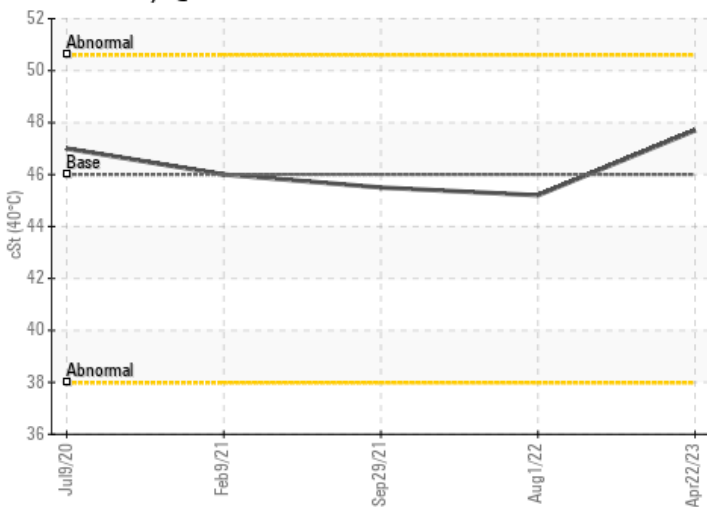
### Ferrous Alloys



### Non-ferrous Metals



### Viscosity @ 40°C



### Acid Number

