



# CONSTRUCTION EQUIPMENT

## VOLVO A30G 742385 - HYDRAULIC SYSTEM



**Sample No:** VCP438702  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:**



### SAMPLE INFORMATION

Sample Number	<b>VCP438702</b>	VCP433496	VCP416640	VCP388416
Sample Date	<b>09 Apr 2024</b>	02 Oct 2023	20 Jun 2023	17 Oct 2022
Machine Hours	<b>5731</b>	5255	4737	4210
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>ATTENTION</b>	NORMAL	ABNORMAL	ABNORMAL

**SAIIA CONSTRUCTION LLC**  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.0</b>	42.9	43.6	46.2
Acid Number (AN)	mg KOH/g	<b>0.41</b>	0.43	0.40	0.37

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>4388</b>	4402	---	35931
Particles >6µm		<b>1915</b>	1381	---	8294
Particles >14µm		<b>163</b>	146	---	625
ISO 4406:1999 (c)		<b>19/18/15</b>	19/18/14	---	22/20/16
Silicon	ppm	<b>3</b>	4	2	4
Sodium	ppm	<b>2</b>	<1	2	<1
Potassium	ppm	<b>0</b>	<1	0	<1

**Diagnosis**  
 No corrective action is recommended at this time. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

### WEAR METALS

Iron	ppm	<b>8</b>	10	6	8
Copper	ppm	<b>3</b>	3	3	5
Lead	ppm	<b>1</b>	2	<1	4
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>&lt;1</b>	0	<1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>&lt;1</b>	1	<1	0
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>125</b>	62	56	58
Magnesium	ppm	<b>4</b>	5	0	2
Zinc	ppm	<b>441</b>	463	471	462
Phosphorus	ppm	<b>334</b>	341	360	351
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10991249  
**Signed:** Don Baldrige  
**Report Date:** 24 Apr 2024

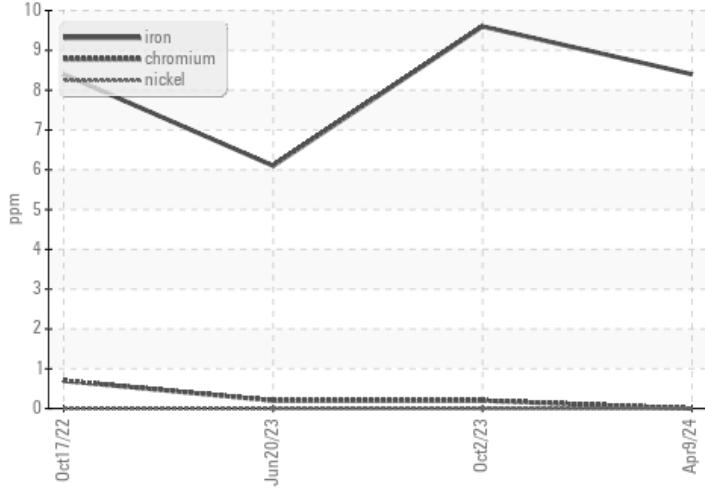


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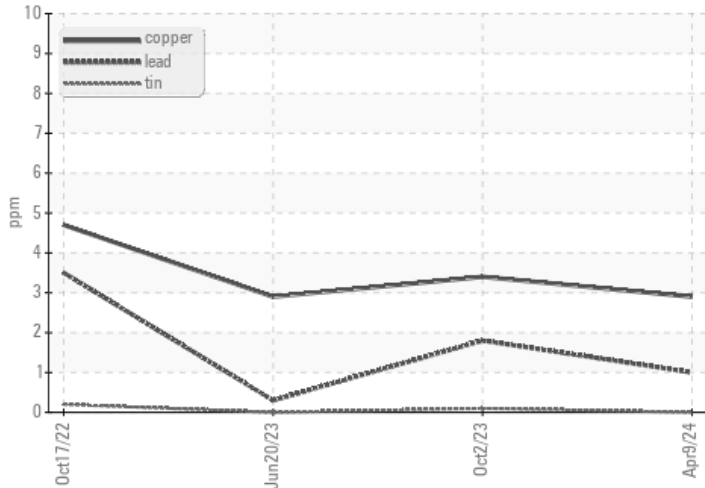


## GRAPHS

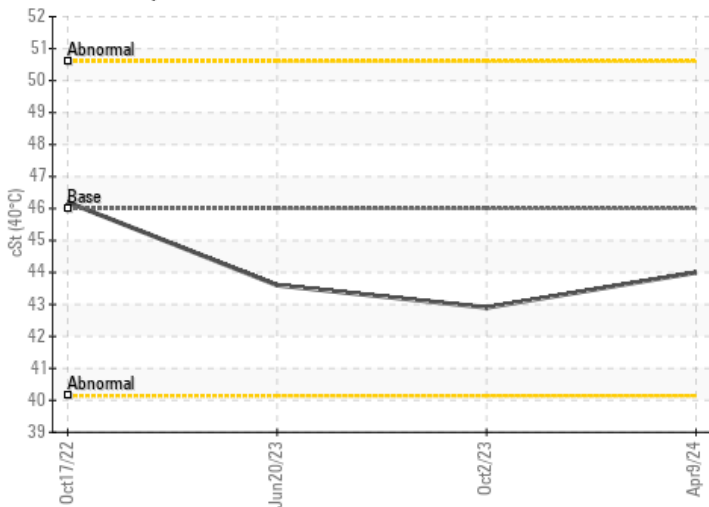
### Ferrous Alloys



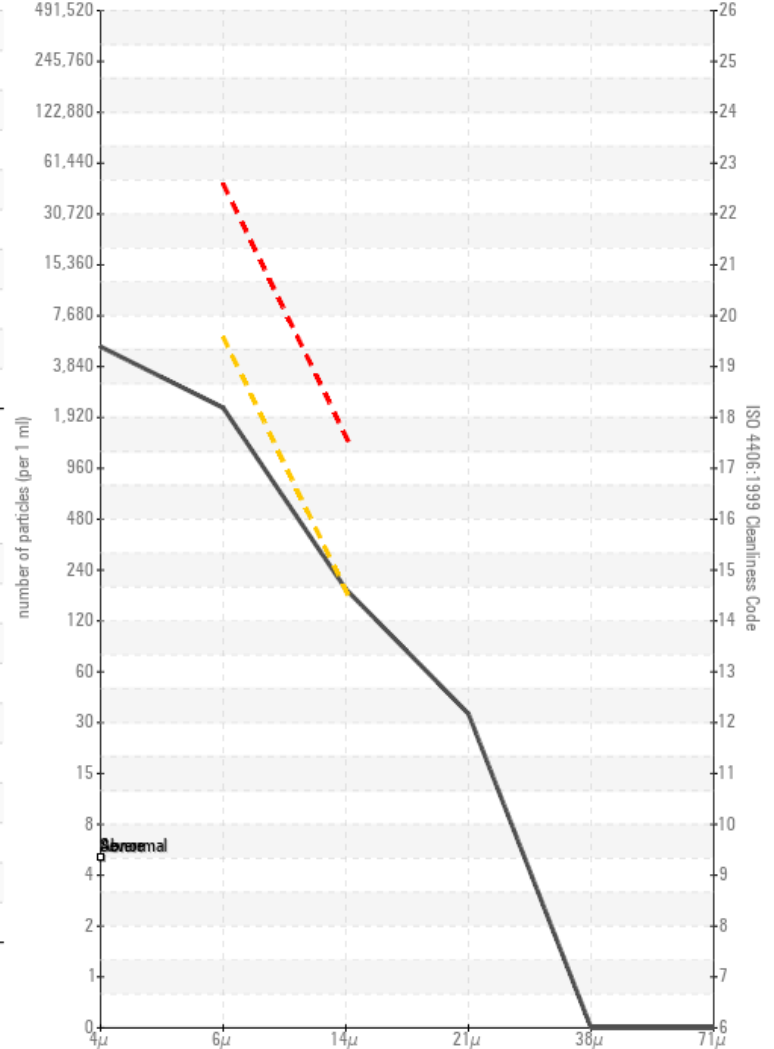
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

