



# CONSTRUCTION EQUIPMENT

## SWO-070876 VOLVO A30G 742048 - HYDRAULIC SYSTEM



**Sample No:** VCP436282  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-070876



### SAMPLE INFORMATION

Sample Number	<b>VCP436282</b>	VCP414002	VCP380976	VCP372917
Sample Date	<b>01 Apr 2024</b>	31 Jul 2023	10 Jan 2023	10 Jul 2022
Machine Hours	<b>9280</b>	8911	8548	8263
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**WHITAKER CONTRACTING**  
 692 CONVICT CAMP RD  
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 US 35976  
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 T: (256)298-3905  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.3</b>	43.5	44.0	43.3
Acid Number (AN)	mg KOH/g	<b>0.35</b>	0.40	0.37	0.38



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>4797</b>	6320	3095	5321
Particles >6µm		<b>810</b>	1366	859	1351
Particles >14µm		<b>29</b>	67	66	85
ISO 4406:1999 (c)		<b>19/17/12</b>	20/18/13	19/17/13	20/18/14
Silicon	ppm	<b>3</b>	3	2	1
Sodium	ppm	<b>2</b>	4	2	2
Potassium	ppm	<b>1</b>	<1	0	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>8</b>	7	5	6
Copper	ppm	<b>3</b>	3	2	3
Lead	ppm	<b>1</b>	<1	<1	<1
Tin	ppm	<b>&lt;1</b>	0	0	0
Aluminum	ppm	<b>2</b>	<1	0	<1
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>2</b>	2	2	2
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>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>97</b>	94	98	117
Magnesium	ppm	<b>12</b>	14	11	8
Zinc	ppm	<b>420</b>	447	431	457
Phosphorus	ppm	<b>311</b>	351	359	364
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	0	0

**Depot:** WHIGUN  
**Unique No:** 10963298  
**Signed:** Wes Davis  
**Report Date:** 05 Apr 2024

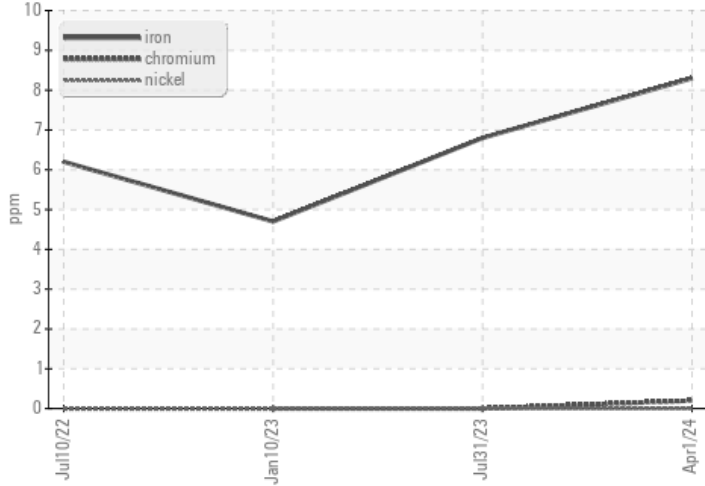


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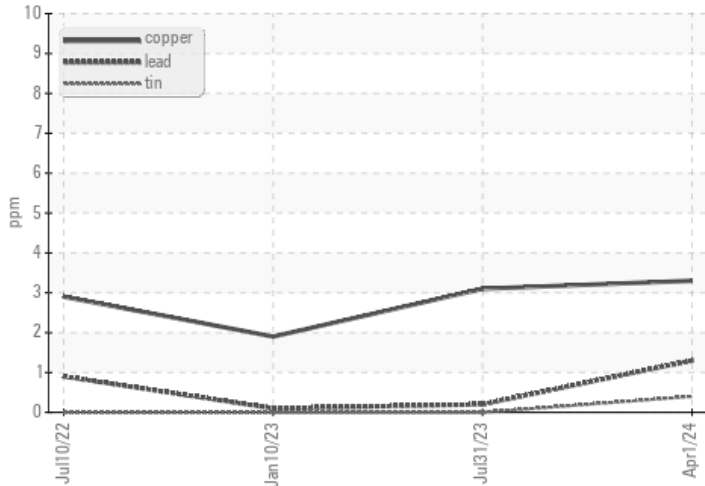


## VOLVO GRAPHS

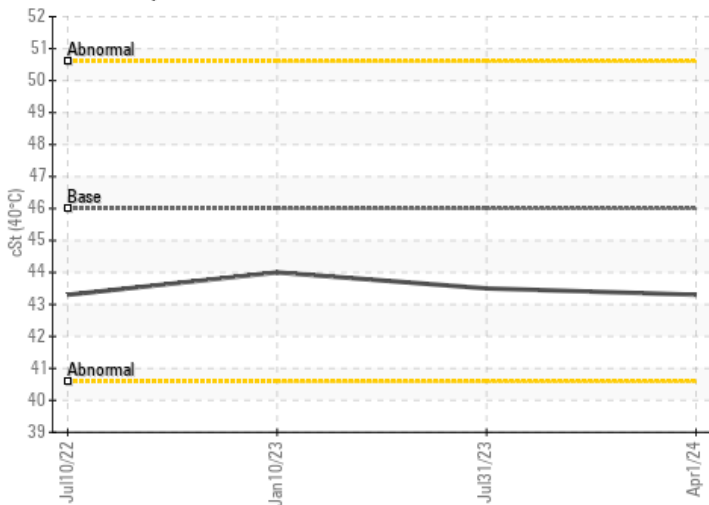
### Ferrous Alloys



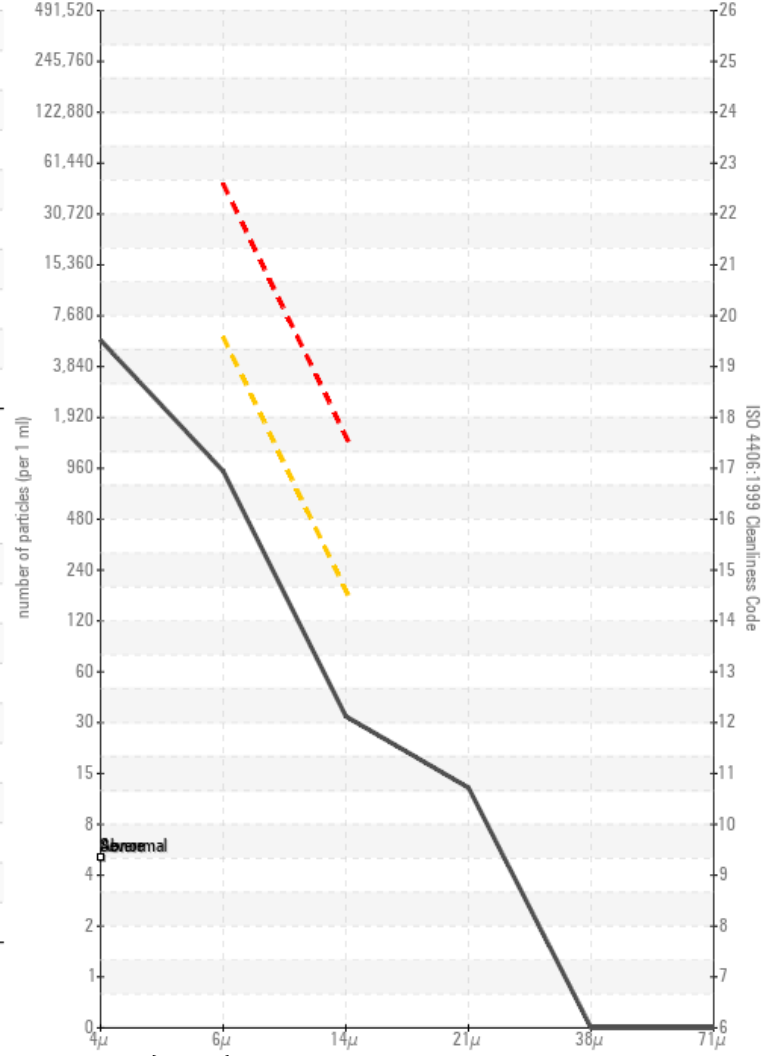
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

