



# CONSTRUCTION EQUIPMENT

## SWO-071569 VOLVO A45G 353090 - HYDRAULIC SYSTEM



**Sample No:** VCP453737  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-071569



### SAMPLE INFORMATION

Sample Number	<b>VCP453737</b>	VCP443289	VCP431097	VCP407521
Sample Date	<b>02 May 2024</b>	03 Jan 2024	19 Sep 2023	09 Jun 2023
Machine Hours	<b>3089</b>	2588	2023	1481
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Not Chngd</b>	Not Chngd	Not Chngd	Not Chngd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>44.0</b>	43.1	43.0	43.0
Acid Number (AN)	mg KOH/g	<b>0.41</b>	0.38	0.41	0.43



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Particles >4µm		<b>1536</b>	432	32702	3549
Particles >6µm		<b>216</b>	93	3135	614
Particles >14µm		<b>35</b>	6	33	42
ISO 4406:1999 (c)		<b>18/15/12</b>	16/14/10	22/19/12	19/16/13
Silicon	ppm	<b>4</b>	7	7	7
Sodium	ppm	<b>0</b>	0	0	0
Potassium	ppm	<b>0</b>	1	1	<1

**Diagnosis**  
 Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



### WEAR METALS

Iron	ppm	<b>2</b>	7	7	4
Copper	ppm	<b>&lt;1</b>	2	2	2
Lead	ppm	<b>&lt;1</b>	3	2	2
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	2	0	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>&lt;1</b>	<1	<1	0
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>0</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	0
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>77</b>	70	59	60
Magnesium	ppm	<b>7</b>	1	<1	<1
Zinc	ppm	<b>438</b>	453	468	455
Phosphorus	ppm	<b>341</b>	347	341	332
Barium	ppm	<b>&lt;1</b>	7	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 11019892  
**Signed:** Don Baldrige  
**Report Date:** 14 May 2024

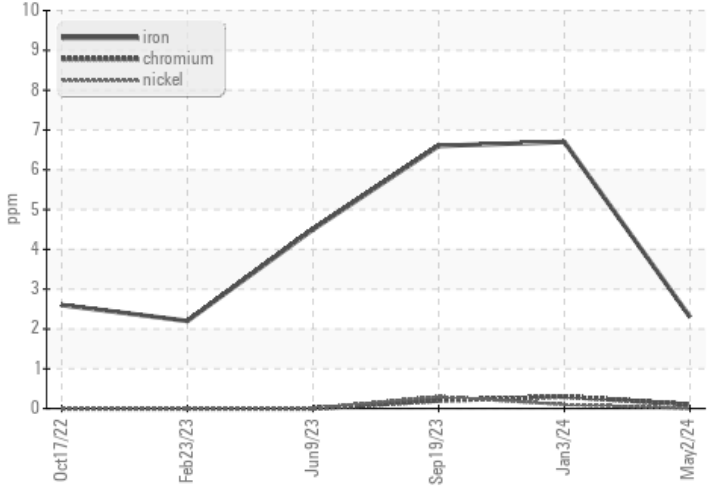


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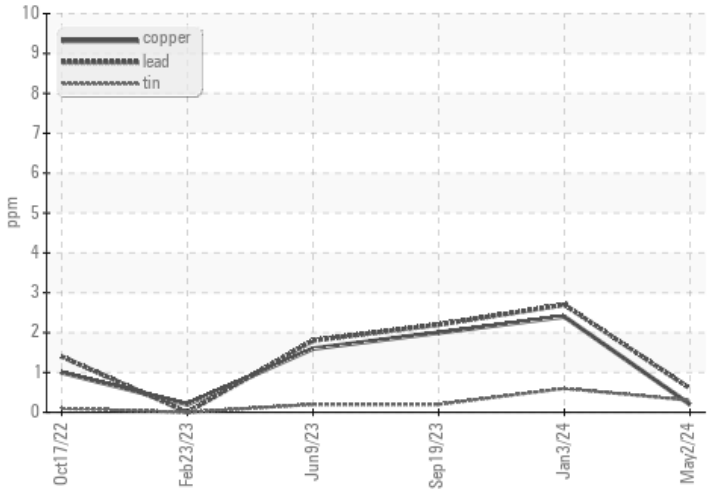


## GRAPHS

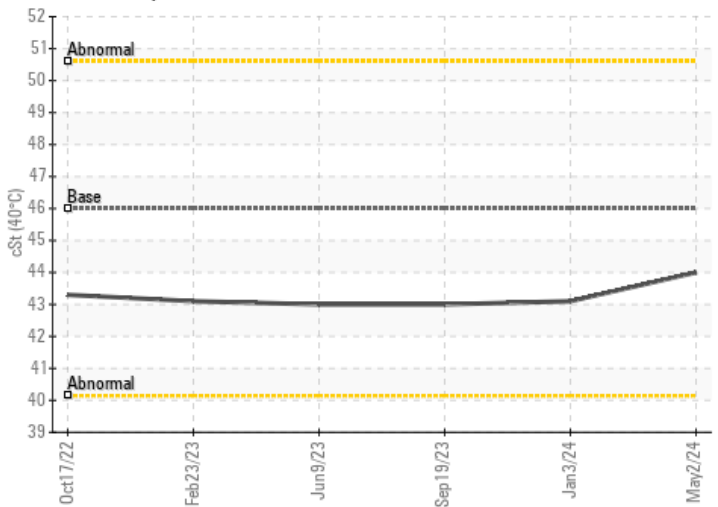
### Ferrous Alloys



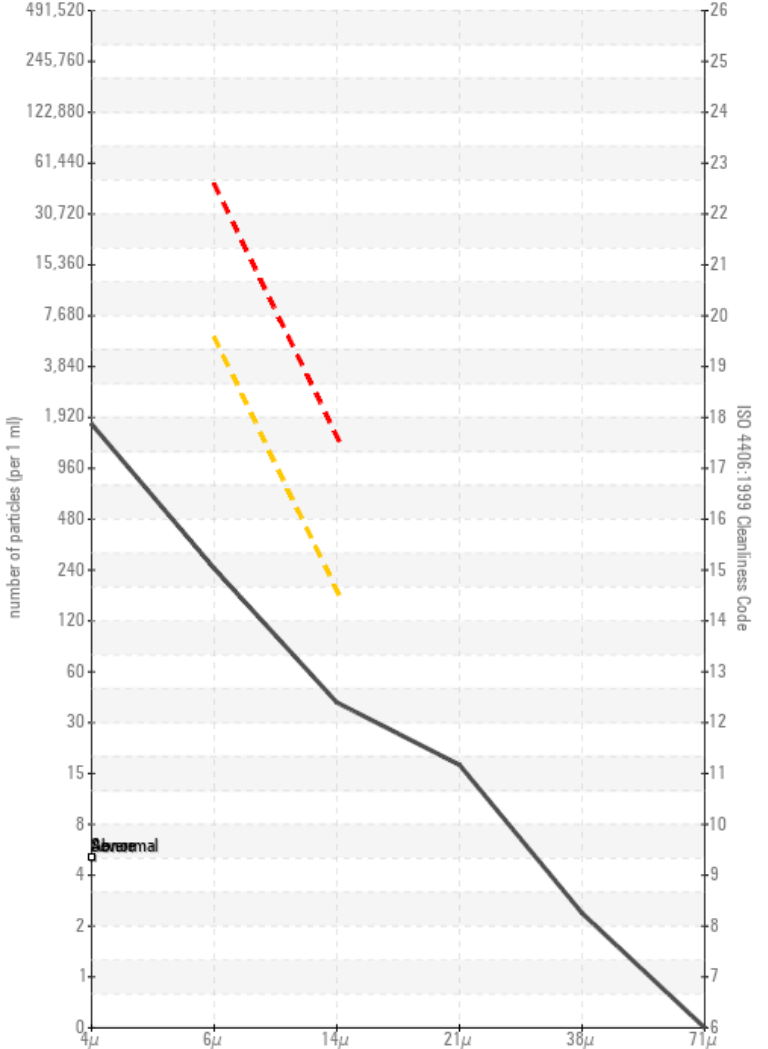
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

