



# CONSTRUCTION EQUIPMENT

## SWO-064007 VOLVO A45G 352916 - HYDRAULIC SYSTEM



**Sample No:** VCP419137  
**Oil Type:** AW HYDRAULIC OIL ISO 46  
**Job No:** SWO-064007



### SAMPLE INFORMATION

Sample Number	<b>VCP419137</b>	VCP404638	VCP403265	VCP362541
Sample Date	<b>25 Jul 2023</b>	04 May 2023	24 Jan 2023	07 Jul 2022
Machine Hours	<b>3005</b>	2493	1980	936
Oil Hours	<b>0</b>	0	0	936
Oil Changed	<b>Not Changd</b>	Not Changd	Not Changd	Not Changd
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 40°C	cSt	<b>43.2</b>	42.1	43.3	43.5
Acid Number (AN)	mg KOH/g	<b>0.39</b>	0.35	0.33	0.569



### CONTAMINATION

Particles >4µm		<b>3198</b>	1944	2150	3052
Particles >6µm		<b>912</b>	382	473	467
Particles >14µm		<b>44</b>	27	34	42
ISO 4406:1999 (c)		<b>19/17/13</b>	18/16/12	18/16/12	19/16/13
Silicon	ppm	<b>5</b>	4	5	3
Sodium	ppm	<b>0</b>	<1	0	0
Potassium	ppm	<b>0</b>	0	<1	0

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



### ADDITIVES

Calcium	ppm	<b>61</b>	71	58	56
Magnesium	ppm	<b>&lt;1</b>	0	<1	0
Zinc	ppm	<b>448</b>	472	462	449
Phosphorus	ppm	<b>338</b>	362	337	348
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>0</b>	0	0	0

**Depot:** SAIBIR  
**Unique No:** 10575414  
**Signed:** Don Baldrige  
**Report Date:** 29 Jul 2023

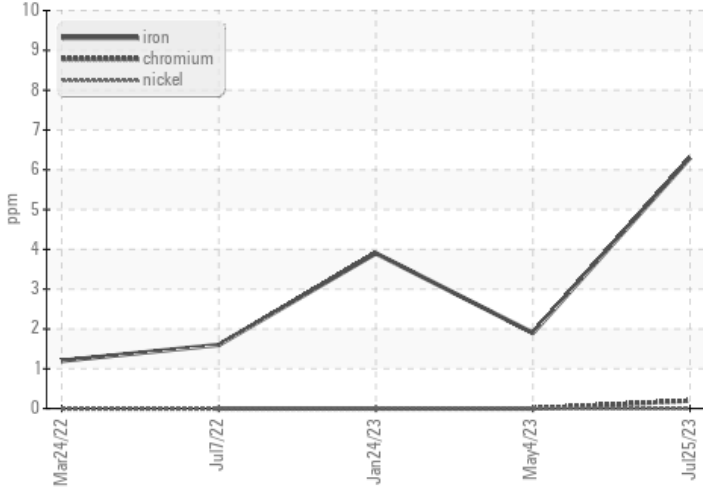


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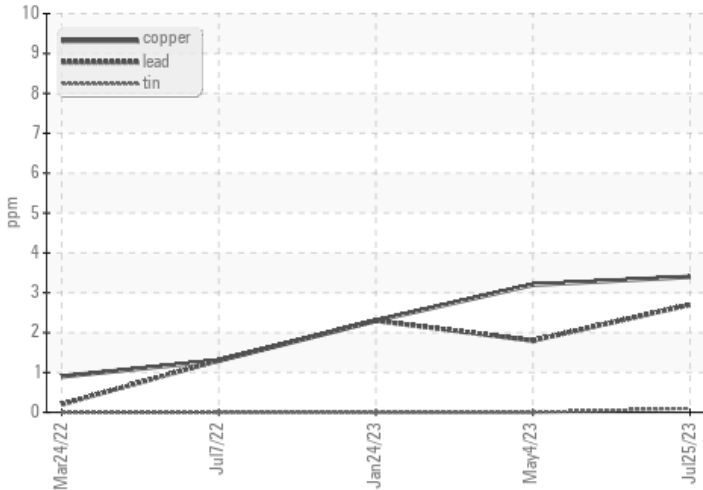


## GRAPHS

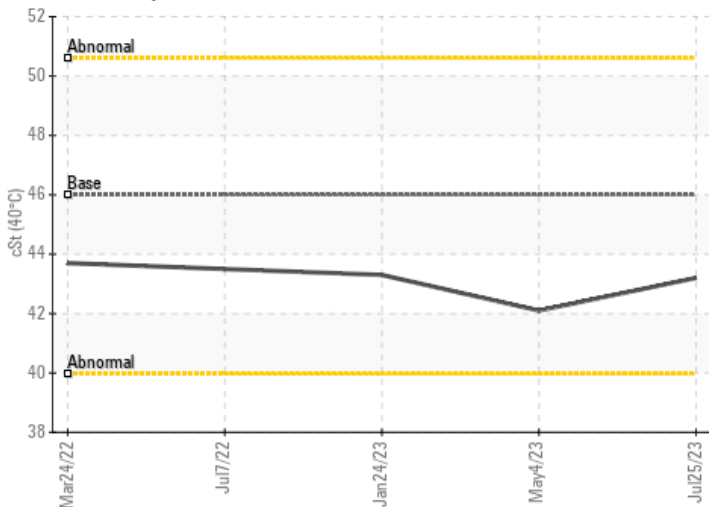
### Ferrous Alloys



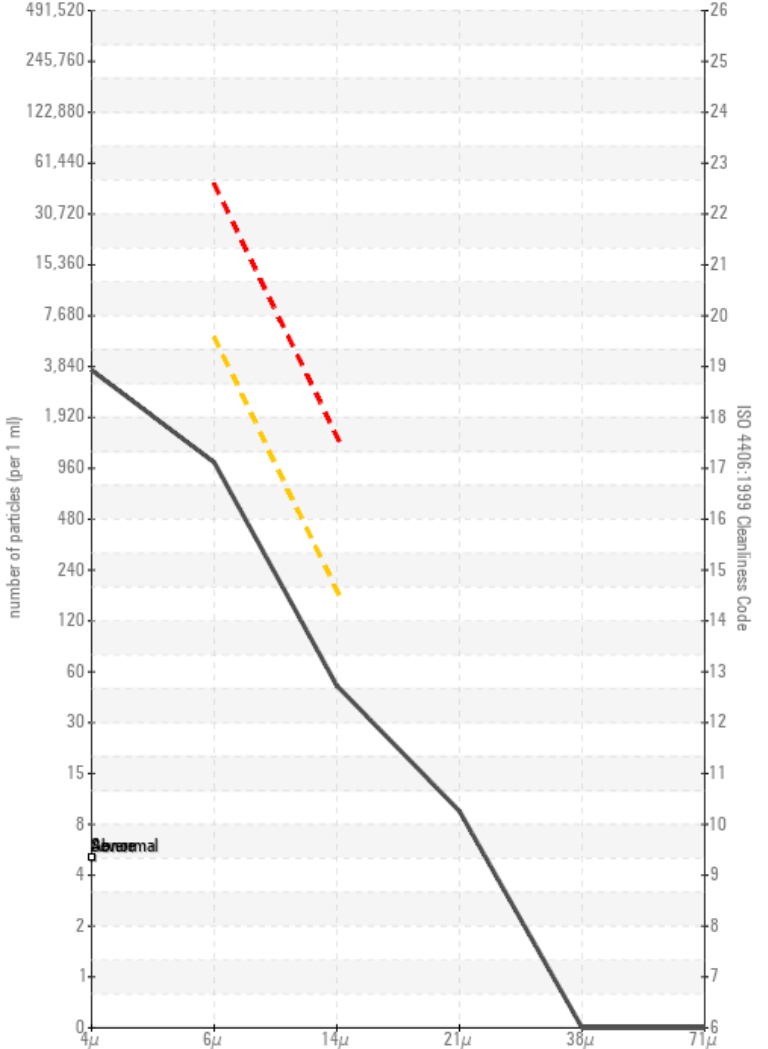
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

