



# CONSTRUCTION EQUIPMENT

SWA309970 VOLVO A40G 352506 - HYDRAULIC SYSTEM



**Sample No:** VCP419569  
**Oil Type:** VOLVO SUPER HYDRAULIC OIL 46  
**Job No:** SWA309970



## SAMPLE INFORMATION

Sample Number	<b>VCP419569</b>	VCP343811	VCP302333	---
Sample Date	<b>22 Jul 2023</b>	16 Oct 2021	12 Jan 2021	---
Machine Hours	<b>5710</b>	2346	493	---
Oil Hours	<b>0</b>	0	0	---
Oil Changed	<b>Changed</b>	Not Changd	Not Changd	---
Sample Status	<b>NORMAL</b>	ABNORMAL	NORMAL	---

**SOUTH FLORIDA EXCAVATION**  
 1455 RAIL HEAD BLVD STE 3  
 NAPLES, FL  
 US 34110-8407  
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## OIL CONDITION

Visc @ 40°C	cSt	<b>48.2</b>	47.3	43.9	---
Acid Number (AN)	mg KOH/g	<b>0.37</b>	0.371	0.313	---

## CONTAMINATION

Particles >4µm		<b>336</b>	---	3204	---
Particles >6µm		<b>48</b>	---	1237	---
Particles >14µm		<b>11</b>	---	142	---
ISO 4406:1999 (c)		<b>16/13/11</b>	---	19/17/14	---
Silicon	ppm	<b>6</b>	3	4	---
Sodium	ppm	<b>2</b>	0	0	---
Potassium	ppm	<b>&lt;1</b>	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>	4	1	---
Copper	ppm	<b>2</b>	1	<1	---
Lead	ppm	<b>2</b>	1	1	---
Tin	ppm	<b>0</b>	0	<1	---
Aluminum	ppm	<b>3</b>	<1	0	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>0</b>	0	0	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>&lt;1</b>	0	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>0</b>	0	0	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---

## ADDITIVES

Calcium	ppm	<b>54</b>	66	52	---
Magnesium	ppm	<b>0</b>	0	<1	---
Zinc	ppm	<b>426</b>	403	428	---
Phosphorus	ppm	<b>336</b>	327	326	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>0</b>	<1	2	---

**Depot:** SOUNAPFL  
**Unique No:** 10577662  
**Signed:** Wes Davis  
**Report Date:** 01 Aug 2023

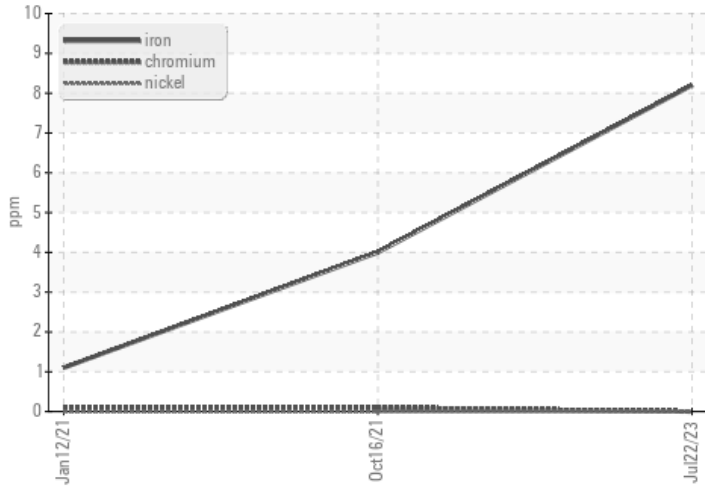


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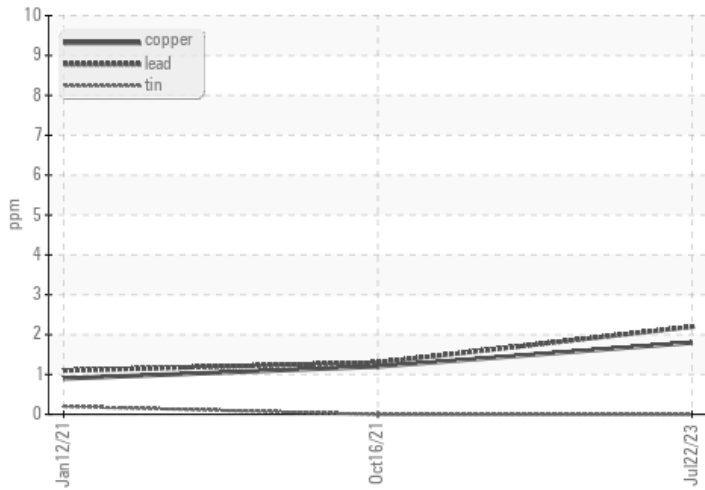


## GRAPHS

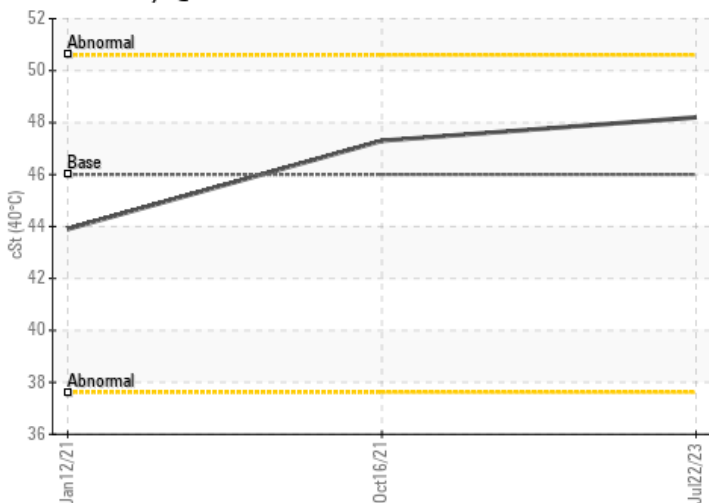
### Ferrous Alloys



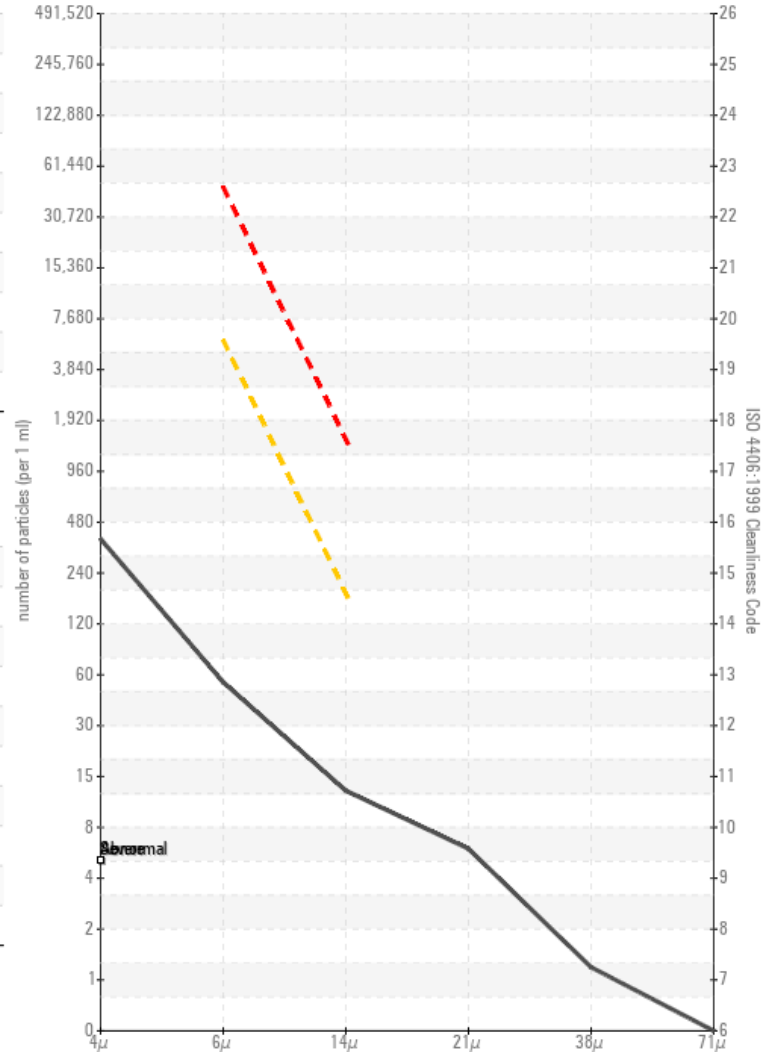
### Non-ferrous Metals



### Viscosity @ 40°C



### Particle Count



### Acid Number

