



CONSTRUCTION EQUIPMENT

VOLVO A40G 352692 - HYDRAULIC SYSTEM



Sample No: VCP387138
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP387138	VCP372237	VCP316435	---
Sample Date	11 Oct 2023	09 Jun 2022	21 Jul 2021	---
Machine Hours	4747	2454	640	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	N/A	---
Sample Status	NORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	43.9	44.4	44.2	---
Acid Number (AN)	mg KOH/g	0.20	0.33	0.416	---



CONTAMINATION

Particles >4µm		2793	12505	1865	---
Particles >6µm		493	2680	357	---
Particles >14µm		38	100	18	---
ISO 4406:1999 (c)		19/16/12	21/19/14	18/16/11	---
Silicon	ppm	18	11	6	---
Sodium	ppm	2	1	1	---
Potassium	ppm	0	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	14	9	3	---
Copper	ppm	4	2	1	---
Lead	ppm	4	3	1	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	10	6	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	0	<1	<1	---
Nickel	ppm	0	0	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	77	69	64	---
Magnesium	ppm	2	1	1	---
Zinc	ppm	413	433	438	---
Phosphorus	ppm	321	337	319	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	1	---

Depot: VOLVO0090
Unique No: 10696138
Signed: Wes Davis
Report Date: 16 Oct 2023

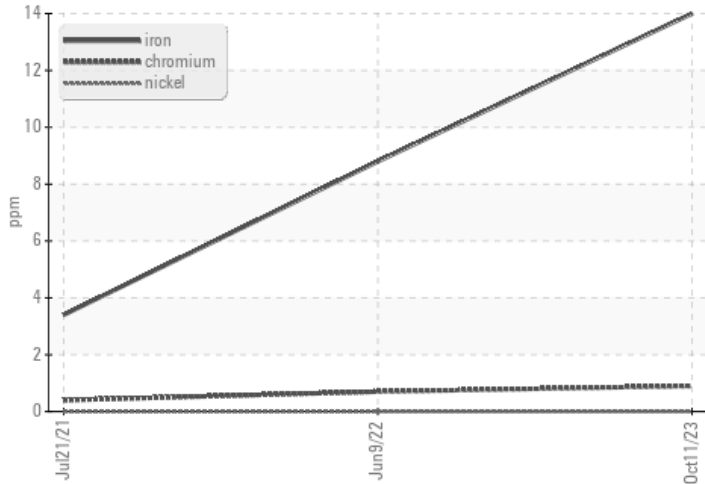


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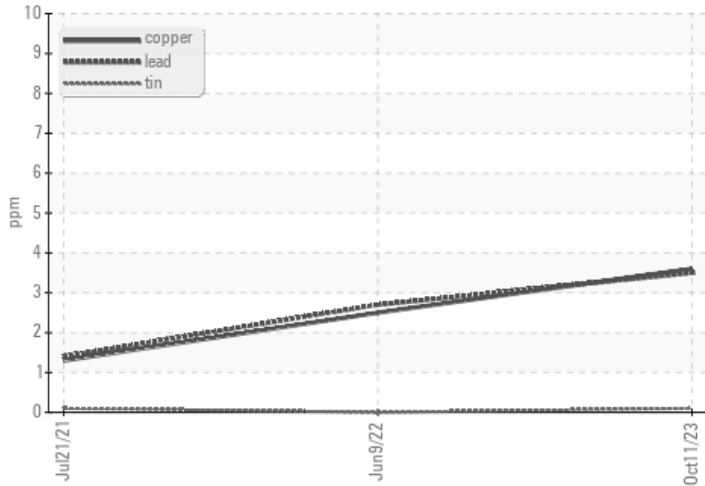


GRAPHS

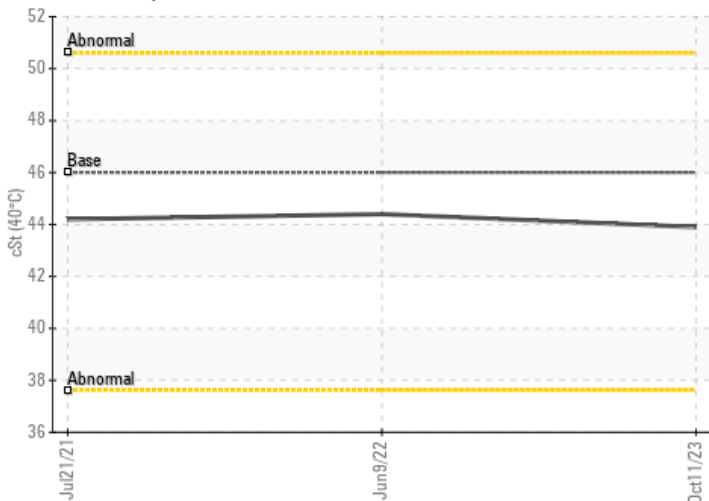
Ferrous Alloys



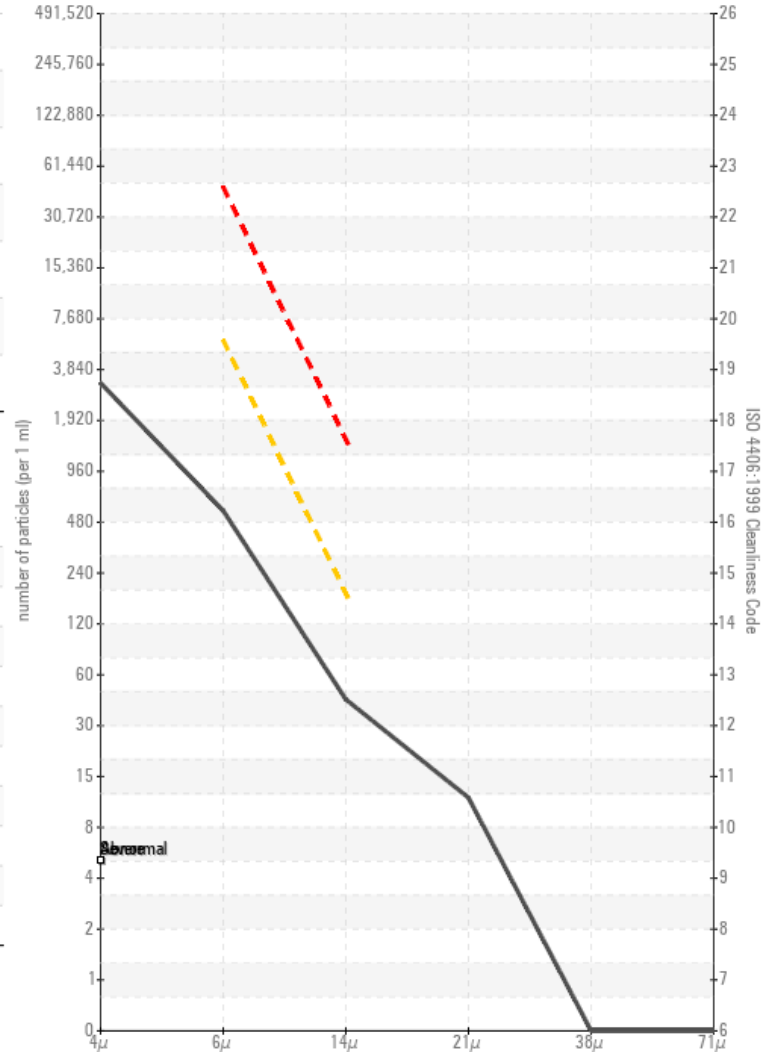
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

