



CONSTRUCTION EQUIPMENT

VOLVO A40G 352489 - HYDRAULIC SYSTEM



Sample No: VCP446667
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP446667	VCP436205	VCP344042	---
Sample Date	16 May 2024	13 Dec 2023	04 Nov 2021	---
Machine Hours	7080	6270	2129	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	N/A	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 54.86	■ 47.9	■ 47.6	---
Acid Number (AN)	mg KOH/g	■ 0.37	■ 0.42	■ 0.397	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		---	12046	9522	---
Particles >6µm		---	■ 1499	■ 1866	---
Particles >14µm		---	■ 48	■ 61	---
ISO 4406:1999 (c)		---	21/18/13	20/18/13	---
Silicon	ppm	■ 4	■ 8	■ 6	---
Sodium	ppm	■ <1	■ 0	■ <1	---
Potassium	ppm	■ 0	■ <1	■ <1	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The oil viscosity is higher than normal. The AN level is acceptable for this fluid.



WEAR METALS

Iron	ppm	■ 6	■ 18	■ 6	---
Copper	ppm	■ <1	■ 2	■ 2	---
Lead	ppm	■ <1	■ 3	■ 2	---
Tin	ppm	■ 0	■ 0	■ <1	---
Aluminum	ppm	■ 1	■ 3	■ 1	---
Chromium	ppm	■ 0	■ <1	■ <1	---
Molybdenum	ppm	■ <1	■ <1	■ <1	---
Nickel	ppm	■ 0	■ 0	■ <1	---
Titanium	ppm	0	<1	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	■ 0	■ 0	■ 0	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	■ 52	■ 72	■ 75	---
Magnesium	ppm	■ 2	■ 5	■ 6	---
Zinc	ppm	■ 423	■ 419	■ 472	---
Phosphorus	ppm	■ 332	■ 348	■ 355	---
Barium	ppm	■ 0	■ 6	■ 0	---
Boron	ppm	■ 0	■ 0	■ 1	---

Depot: VOLVO0090
Unique No: 11035545
Signed: Jonathan Hester
Report Date: 29 May 2024

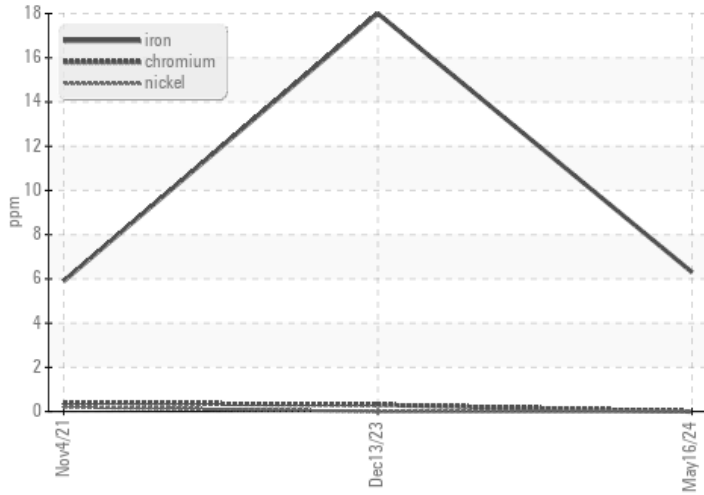


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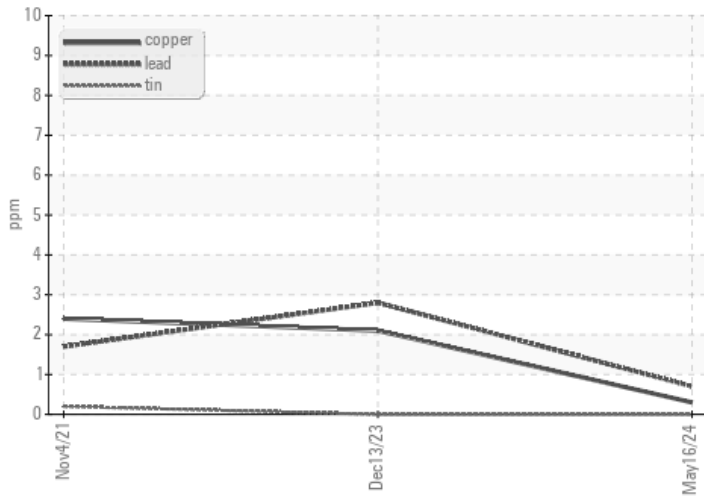


GRAPHS

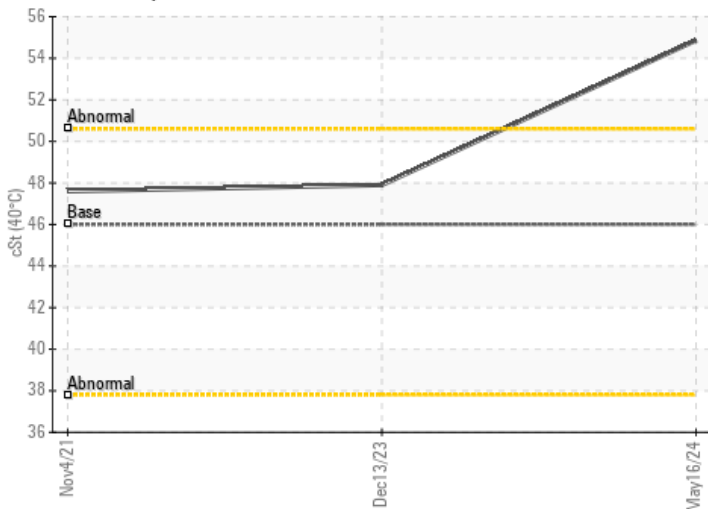
Ferrous Alloys



Non-ferrous Metals



▲ Viscosity @ 40°C



Acid Number

