



CONSTRUCTION EQUIPMENT

VOLVO A45G 353251 - HYDRAULIC SYSTEM



Sample No: VCP454380
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP454380	VCP415831	---	---
Sample Date	04 May 2024	20 Jul 2023	---	---
Machine Hours	3988	2242	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 40°C	cSt	43.2	43.6	---	---
Acid Number (AN)	mg KOH/g	0.36	0.43	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Particles >4µm		5888	7338	---	---
Particles >6µm		522	1375	---	---
Particles >14µm		21	71	---	---
ISO 4406:1999 (c)		20/16/12	20/18/13	---	---
Silicon	ppm	5	5	---	---
Sodium	ppm	0	1	---	---
Potassium	ppm	<1	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	8	5	---	---
Copper	ppm	2	2	---	---
Lead	ppm	3	2	---	---
Tin	ppm	<1	0	---	---
Aluminum	ppm	2	0	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	<1	0	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	0	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	67	53	---	---
Magnesium	ppm	1	0	---	---
Zinc	ppm	438	439	---	---
Phosphorus	ppm	361	338	---	---
Barium	ppm	0	0	---	---
Boron	ppm	0	0	---	---

Depot: VOLVO0090
Unique No: 11017150
Signed: Wes Davis
Report Date: 08 May 2024

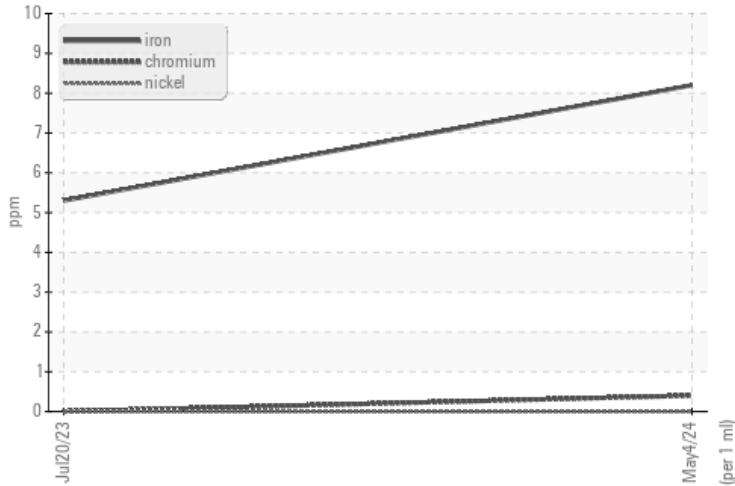


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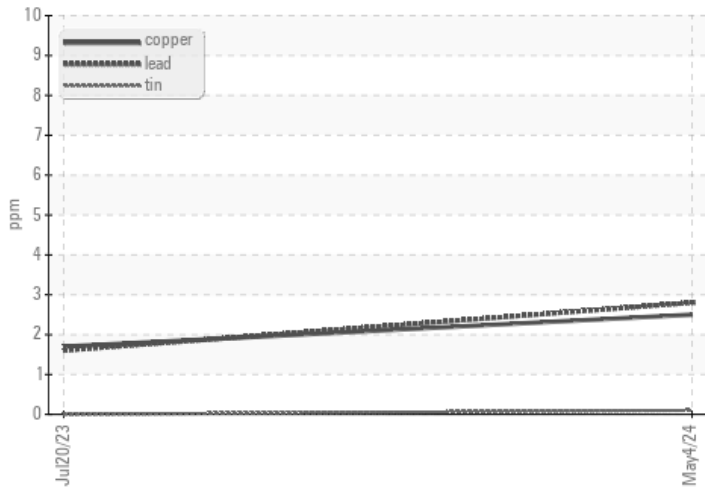


GRAPHS

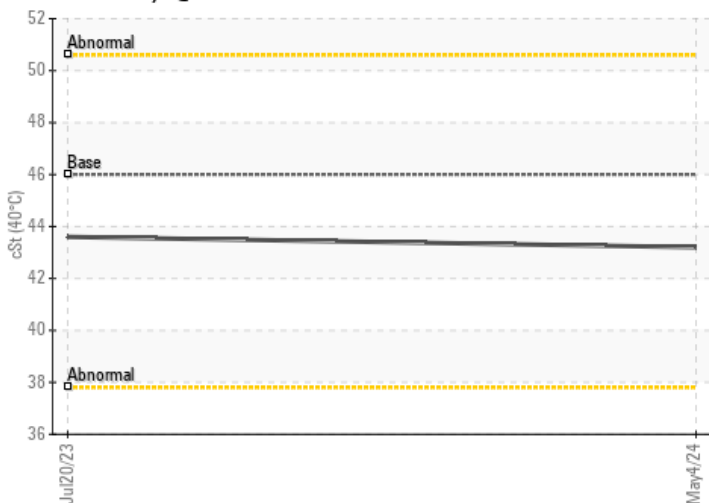
Ferrous Alloys



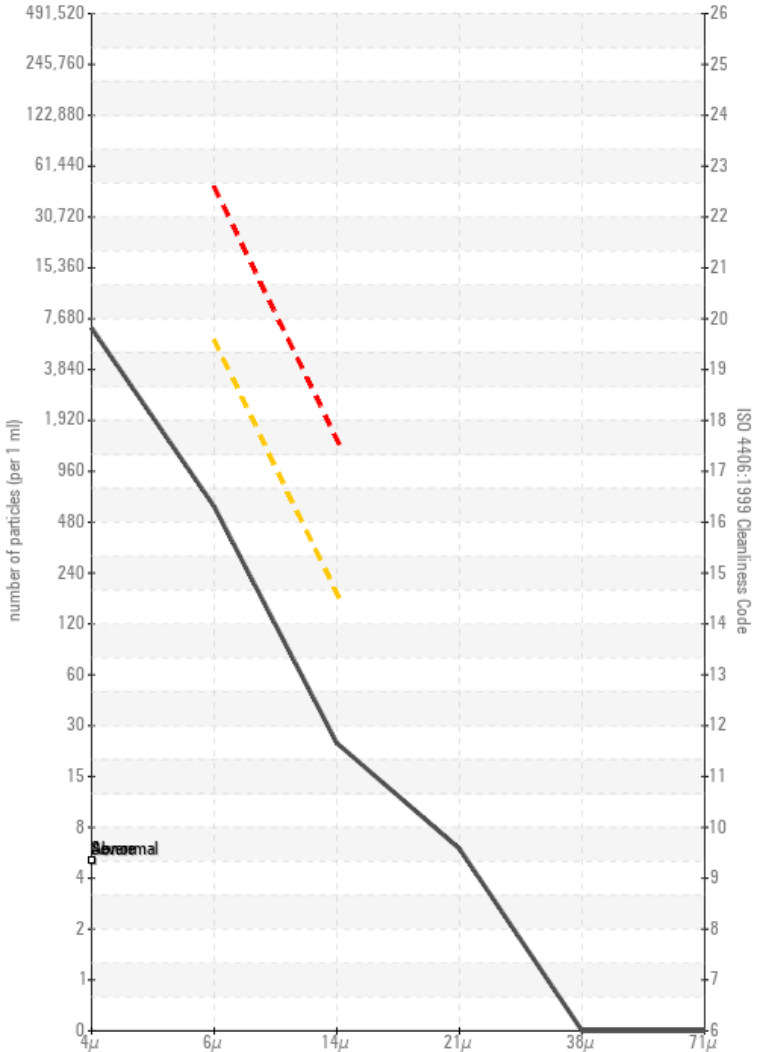
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

