



CONSTRUCTION EQUIPMENT

VOLVO A40G 752009 - HYDRAULIC SYSTEM



Sample No: VCP398083
Oil Type: MOBIL 10W
Job No:



SAMPLE INFORMATION

Sample Number	VCP398083	VCP445738	VCP312950	---
Sample Date	12 Mar 2024	29 Nov 2023	12 Sep 2023	---
Machine Hours	1479	987	482	---
Oil Hours	1052	560	482	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ABNORMAL	NORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 40°C	cSt	43.8	44.1	44.9	---
Acid Number (AN)	mg KOH/g	0.33	0.38	0.35	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		14792	14333	12064	---
Particles >6µm		▲ 5674	3800	3239	---
Particles >14µm		▲ 734	122	212	---
ISO 4406:1999 (c)		21/20/17	21/19/14	21/19/15	---
Silicon	ppm	2	2	2	---
Sodium	ppm	<1	2	0	---
Potassium	ppm	0	0	0	---

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	98	66	75	---
Magnesium	ppm	<1	0	3	---
Zinc	ppm	455	423	414	---
Phosphorus	ppm	354	319	333	---
Barium	ppm	0	0	0	---
Boron	ppm	0	0	0	---

Depot: SCHGRE
Unique No: 10937729
Signed: Jonathan Hester
Report Date: 25 Mar 2024

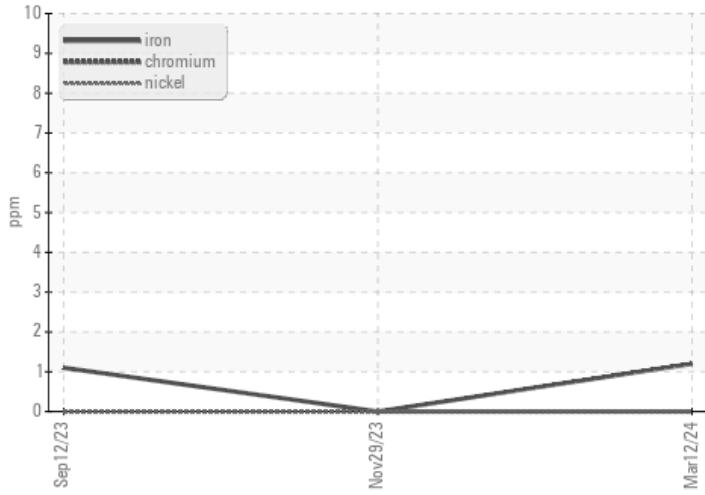


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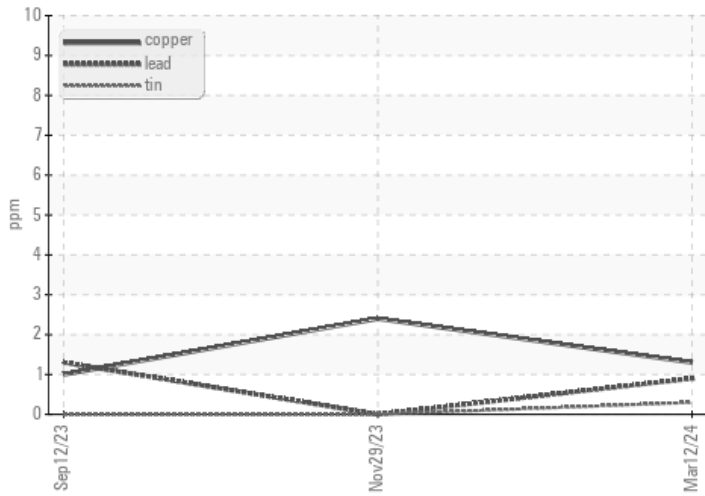


GRAPHS

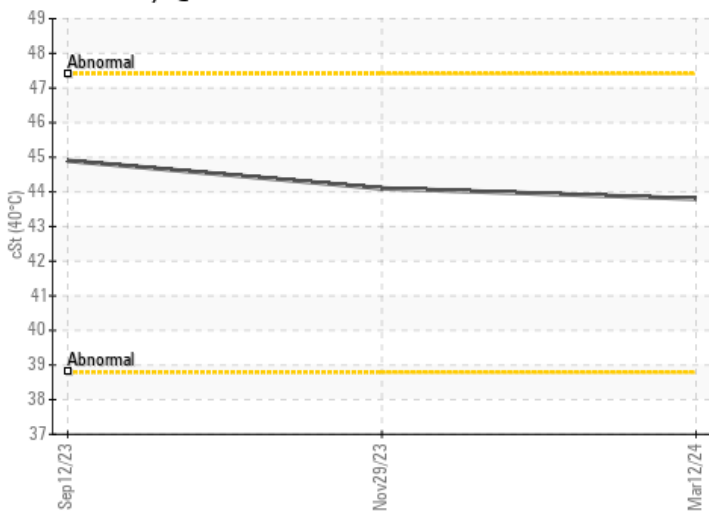
Ferrous Alloys



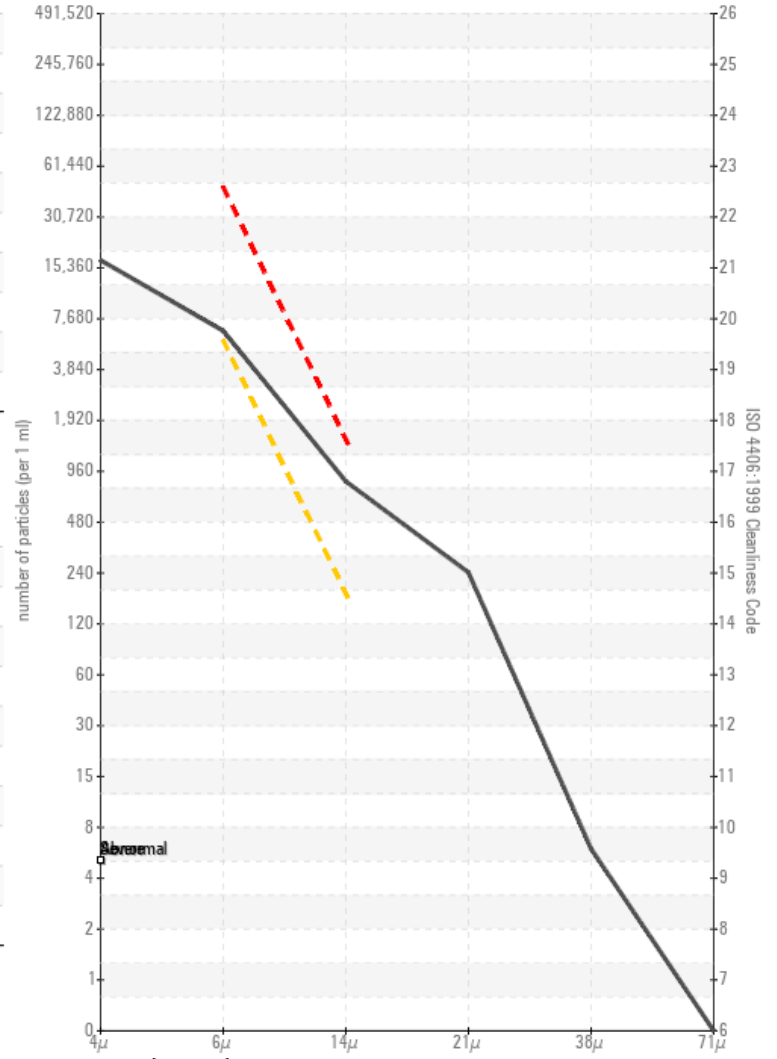
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

