



CONSTRUCTION EQUIPMENT

701157 APTIM VOLVO A35G 340101 - HYDRAULIC SYSTEM



Sample No: VCP445565
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 701157 APTIM



SAMPLE INFORMATION

Sample Number	VCP445565	VCP412108	VCP395757	---
Sample Date	12 Apr 2024	24 May 2023	31 Jan 2023	---
Machine Hours	9074	7984	7430	---
Oil Hours	1500	4000	3000	---
Oil Changed	Not Chngd	Changed	Not Chngd	---
Sample Status	ABNORMAL	NORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	43.3	41.0	40.9	---
Acid Number (AN)	mg KOH/g	0.55	0.75	0.65	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		11535	4828	5790	---
Particles >6µm		4894	1886	1164	---
Particles >14µm		589	155	48	---
ISO 4406:1999 (c)		21/19/16	19/18/14	20/17/13	---
Silicon	ppm	3	8	8	---
Sodium	ppm	2	2	<1	---
Potassium	ppm	2	0	<1	---

Diagnosis

We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of particulates (2 to 100 microns in size) present in the oil. The AN level is acceptable for this fluid. The oil is still serviceable provided that the contaminant(s) can be reduced to acceptable levels.



WEAR METALS

Iron	ppm	1	8	9	---
Copper	ppm	3	7	8	---
Lead	ppm	<1	2	4	---
Tin	ppm	<1	0	<1	---
Aluminum	ppm	1	0	2	---
Chromium	ppm	0	<1	<1	---
Molybdenum	ppm	<1	<1	1	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	805	661	673	---
Magnesium	ppm	13	10	12	---
Zinc	ppm	616	599	591	---
Phosphorus	ppm	510	509	497	---
Barium	ppm	0	0	0	---
Boron	ppm	<1	0	0	---

Depot: VOLVO0093
Unique No: 11036261
Signed: Wes Davis
Report Date: 22 May 2024

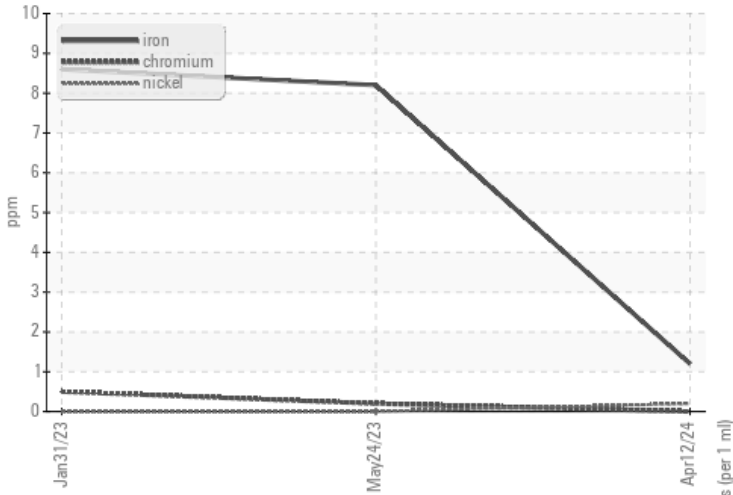


CONSTRUCTION EQUIPMENT

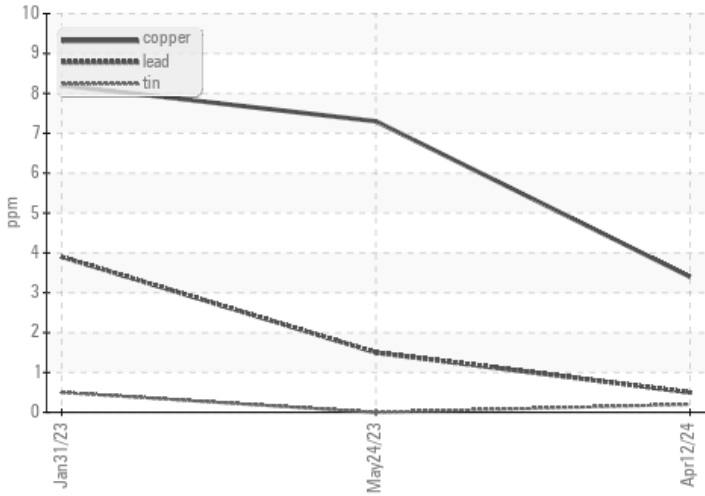


VOLVO GRAPHS

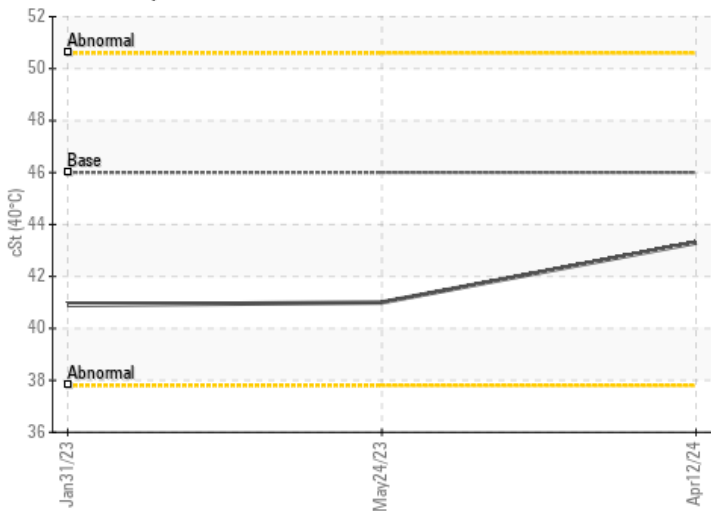
Ferrous Alloys



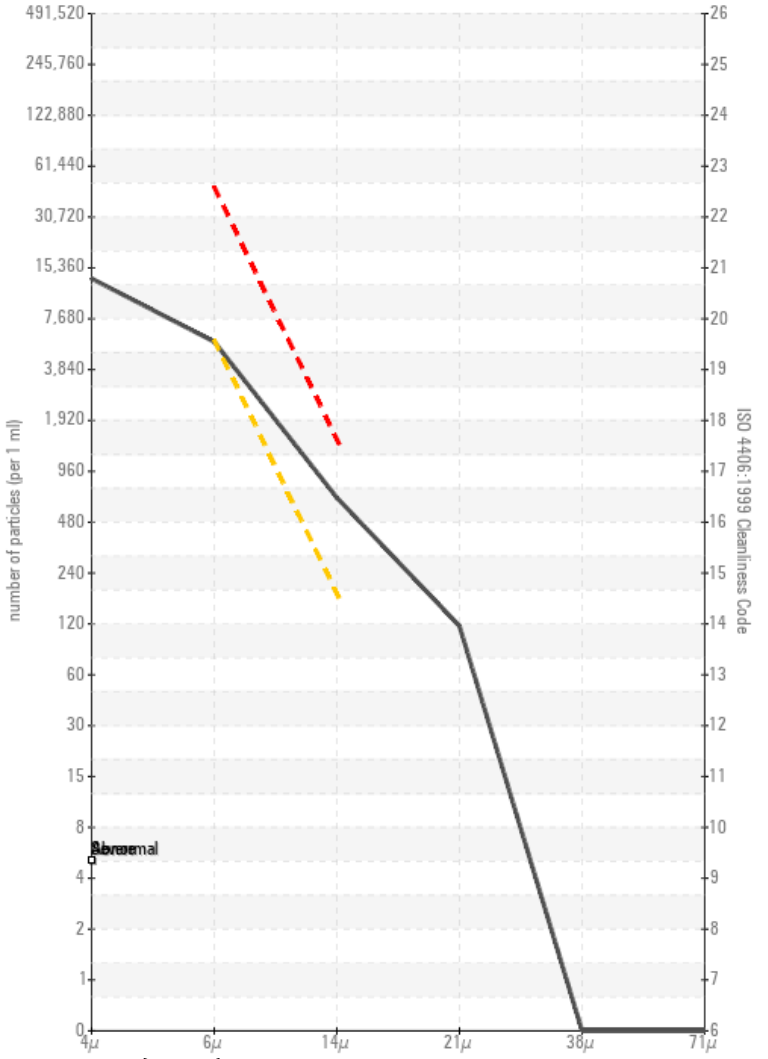
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

