



CONSTRUCTION EQUIPMENT

660620 R. BRO VOLVO L110H 632535 - HYDRAULIC SYSTEM



Sample No: VCP438973
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 660620 R. BRO



SAMPLE INFORMATION

Sample Number	VCP438973	VCP434898	VCP415531	---
Sample Date	16 Jan 2024	31 Aug 2023	01 Aug 2023	---
Machine Hours	1889	1027	810	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Not Chngd	---
Sample Status	ATTENTION	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	45.4	44.1	47.5	---
Acid Number (AN)	mg KOH/g	0.46	0.44	0.47	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Particles >4µm		13833	2823	17320	---
Particles >6µm		▲ 2715	567	4678	---
Particles >14µm		▲ 122	35	238	---
ISO 4406:1999 (c)		21/19/14	19/16/12	21/19/15	---
Silicon	ppm	2	1	2	---
Sodium	ppm	0	0	2	---
Potassium	ppm	1	0	<1	---

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. All component wear rates are normal. There is a light amount of silt (particulates < 14 microns in size) 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	4	2	2	---
Copper	ppm	2	<1	2	---
Lead	ppm	2	0	<1	---
Tin	ppm	1	0	0	---
Aluminum	ppm	2	0	0	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	2	0	<1	---
Nickel	ppm	<1	0	0	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	0	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	60	59	61	---
Magnesium	ppm	3	6	4	---
Zinc	ppm	466	417	440	---
Phosphorus	ppm	326	330	340	---
Barium	ppm	<1	6	0	---
Boron	ppm	0	0	0	---

Depot: VOLVO0096
Unique No: 10845006
Signed: Wes Davis
Report Date: 24 Jan 2024

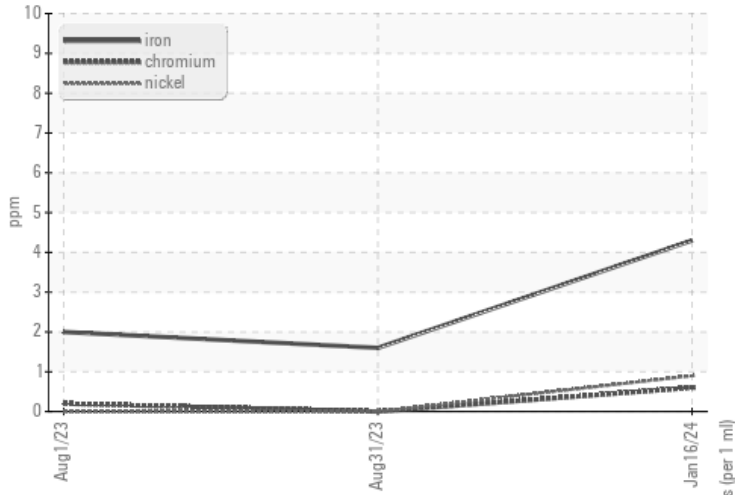


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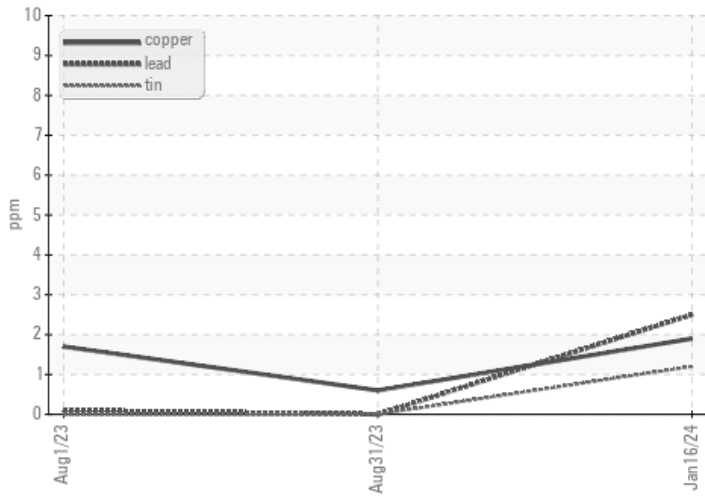


GRAPHS

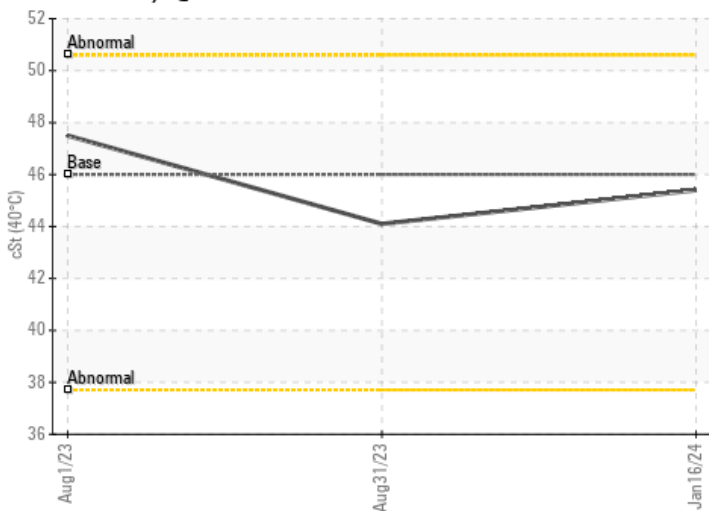
Ferrous Alloys



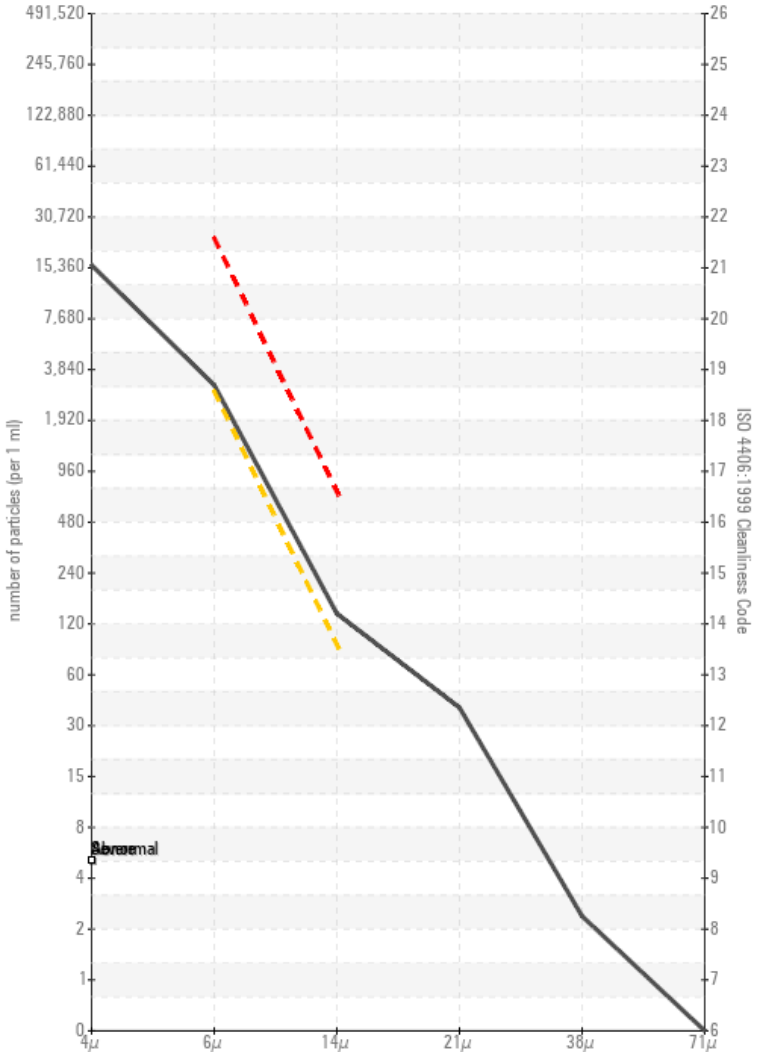
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

