



CONSTRUCTION EQUIPMENT

703130 RB VOLVO L110H 632535 - HYDRAULIC SYSTEM



Sample No: VCP451311
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 703130 RB



SAMPLE INFORMATION

Sample Number	VCP451311	VCP438973	VCP434898	VCP415531
Sample Date	25 Apr 2024	16 Jan 2024	31 Aug 2023	01 Aug 2023
Machine Hours	2591	1889	1027	810
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	SEVERE	ATTENTION	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.9	45.4	44.1	47.5
Acid Number (AN)	mg KOH/g	0.42	0.46	0.44	0.47

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		72128	13833	2823	17320
Particles >6µm		▲ 29162	● 2715	■ 567	● 4678
Particles >14µm		▲ 3240	● 122	■ 35	▲ 238
ISO 4406:1999 (c)		23/22/19	21/19/14	19/16/12	21/19/15
Silicon	ppm	2	2	1	2
Sodium	ppm	<1	0	0	2
Potassium	ppm	0	1	0	<1

WEAR METALS

Iron	ppm	4	4	2	2
Copper	ppm	<1	2	<1	2
Lead	ppm	<1	2	0	<1
Tin	ppm	0	1	0	0
Aluminum	ppm	0	2	0	0
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	0	2	0	<1
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	<1	0	0

ADDITIVES

Calcium	ppm	66	60	59	61
Magnesium	ppm	0	3	6	4
Zinc	ppm	444	466	417	440
Phosphorus	ppm	349	326	330	340
Barium	ppm	0	<1	6	0
Boron	ppm	0	0	0	0

Diagnosis

We advise that you check all areas where contaminants can enter the system. We advise that you perform a filter service, and use off-line filtration to improve the cleanliness of the system fluid. The air breather requires service. If unrated, we recommend that you replace with a suitable micron rated and/or desiccant air breather. If rated, we recommend that you service/replace the breather. Resample in 30-45 days to monitor this situation. All component wear rates are normal. There is a high 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.

Depot: VOLVO0096
Unique No: 11006350
Signed: Wes Davis
Report Date: 02 May 2024

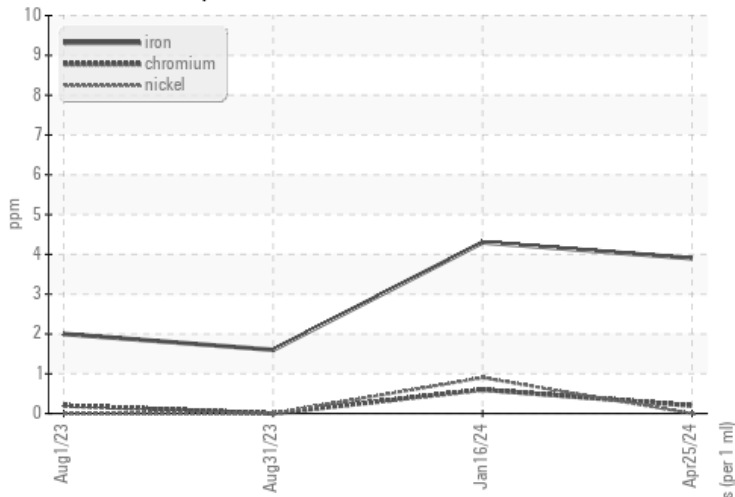


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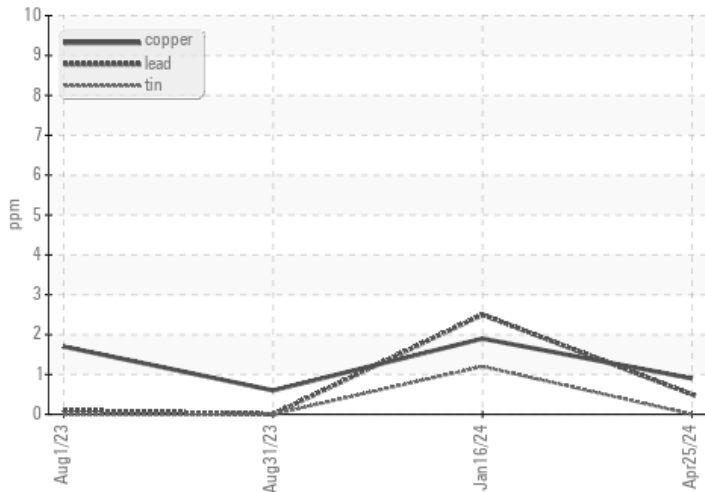


GRAPHS

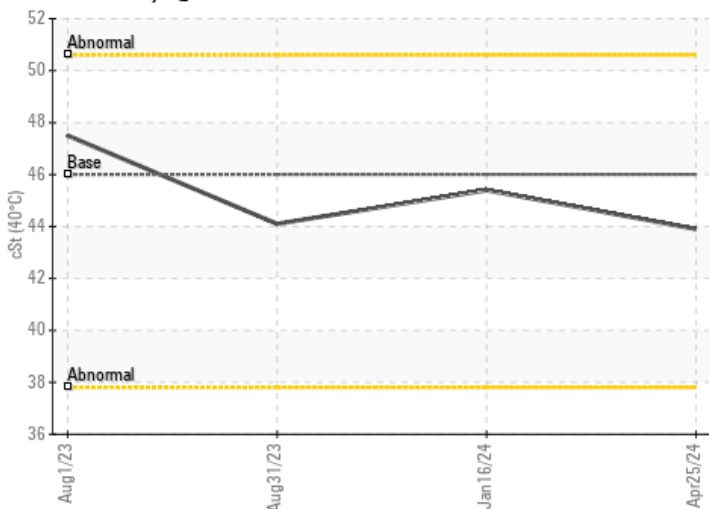
Ferrous Alloys



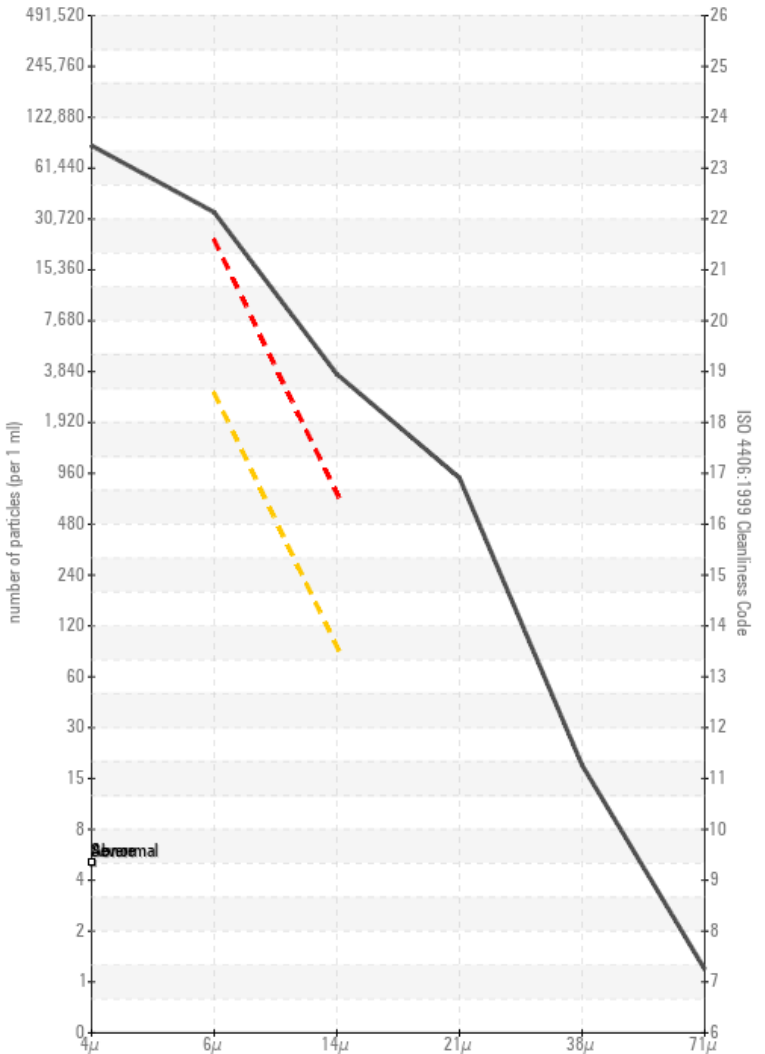
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

