



CONSTRUCTION EQUIPMENT

4883 IAA VOLVO L90H 623702 - HYDRAULIC SYSTEM



Sample No: VCP438152
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 4883 IAA



SAMPLE INFORMATION

Sample Number	VCP438152	VCP397645	VCP375111	VCP346511
Sample Date	09 Jan 2024	23 Jan 2023	21 Jul 2022	01 Mar 2022
Machine Hours	9535	8975	8523	8020
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.7	41.7	41.9	42.4
Acid Number (AN)	mg KOH/g	0.30	0.32	0.31	0.50



CONTAMINATION

Water	%	NEG	0.027	NEG	NEG
Particles >4µm		4816	6217	358	1198
Particles >6µm		1491	1121	53	150
Particles >14µm		160	43	4	7
ISO 4406:1999 (c)		19/18/14	20/17/13	16/13/9	17/14/10
Silicon	ppm	2	3	3	4
Sodium	ppm	2	0	0	1
Potassium	ppm	0	1	0	0

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 condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	64	69	67	74
Magnesium	ppm	0	3	2	<1
Zinc	ppm	422	419	427	442
Phosphorus	ppm	337	321	348	403
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: VOLVO0096
Unique No: 10830636
Signed: Wes Davis
Report Date: 15 Jan 2024

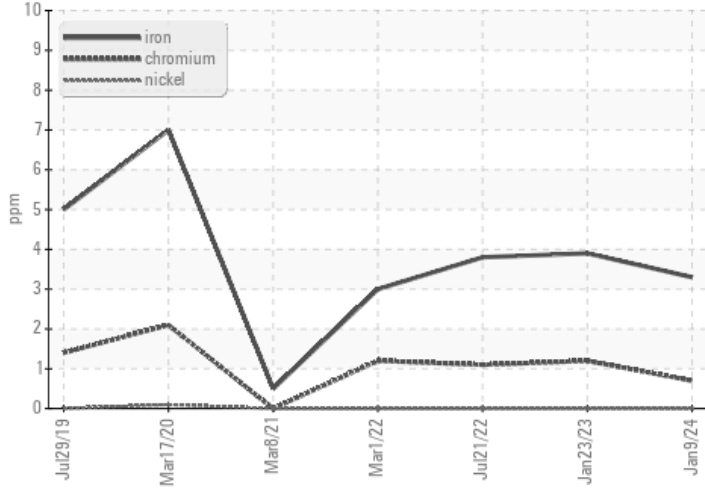


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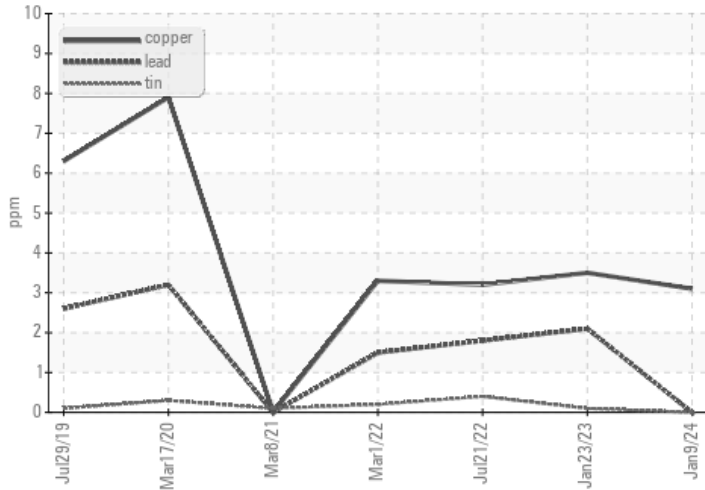


VOLVO GRAPHS

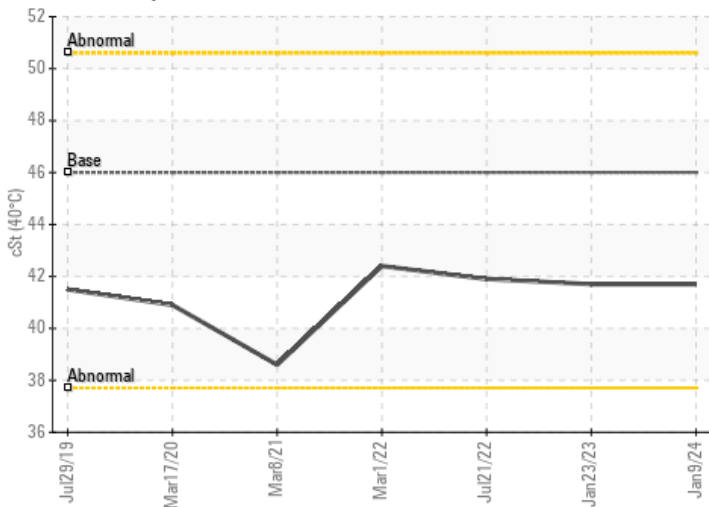
Ferrous Alloys



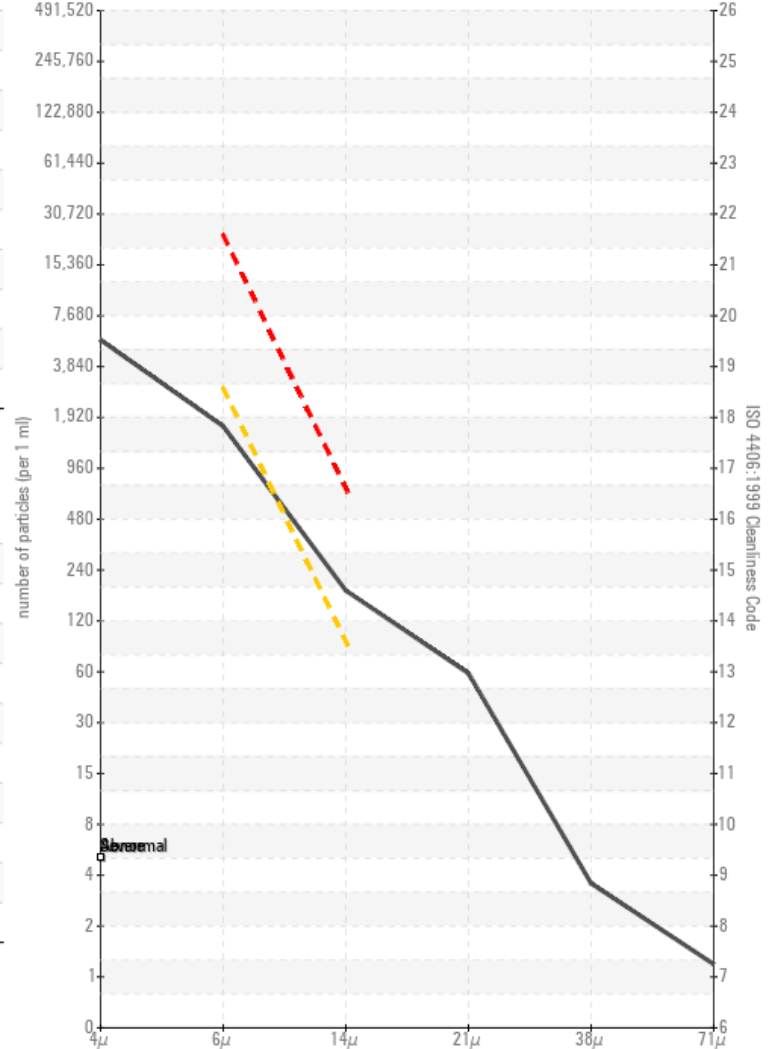
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

