



CONSTRUCTION EQUIPMENT

VOLVO L45H 4122025 - HYDRAULIC SYSTEM



Sample No: VCP437098
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP437098	VCP424450	VCP386626	VCP360655
Sample Date	11 Mar 2024	16 May 2023	08 Nov 2022	31 Mar 2022
Machine Hours	2027	2094	1561	1029
Oil Hours	0	2094	1500	1029
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.6	38.3	43.7	39.2
Acid Number (AN)	mg KOH/g	0.47	0.47	0.49	0.43



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		12425	21658	4204	2392
Particles >6µm		▲ 2778	● 2812	■ 921	■ 349
Particles >14µm		▲ 292	● 101	■ 66	■ 29
ISO 4406:1999 (c)		21/19/15	22/19/14	19/17/13	18/16/12
Silicon	ppm	5	6	3	4
Sodium	ppm	2	0	<1	0
Potassium	ppm	1	2	0	2

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 high amount of particulates 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	14	16	2	6
Copper	ppm	5	8	23	6
Lead	ppm	4	4	0	3
Tin	ppm	3	<1	0	<1
Aluminum	ppm	<1	0	0	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	<1	0	0	0
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	1	<1	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	39	61	71	40
Magnesium	ppm	0	2	0	2
Zinc	ppm	379	429	466	382
Phosphorus	ppm	284	318	385	279
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	0

Depot: VOLVO0093
Unique No: 10940525
Signed: Jonathan Hester
Report Date: 26 Mar 2024

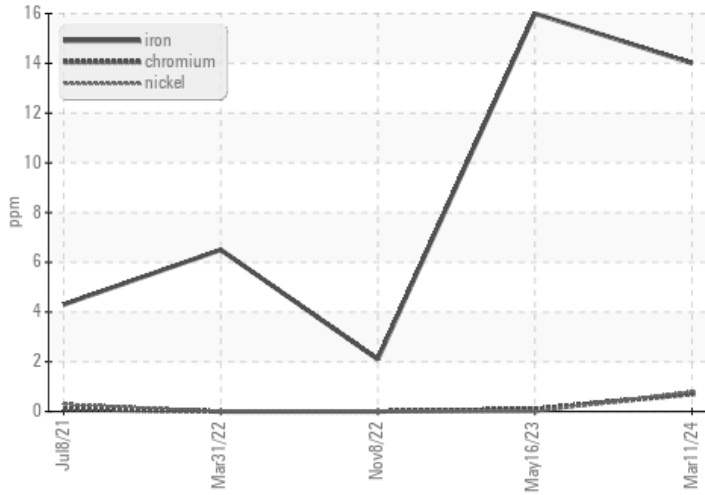


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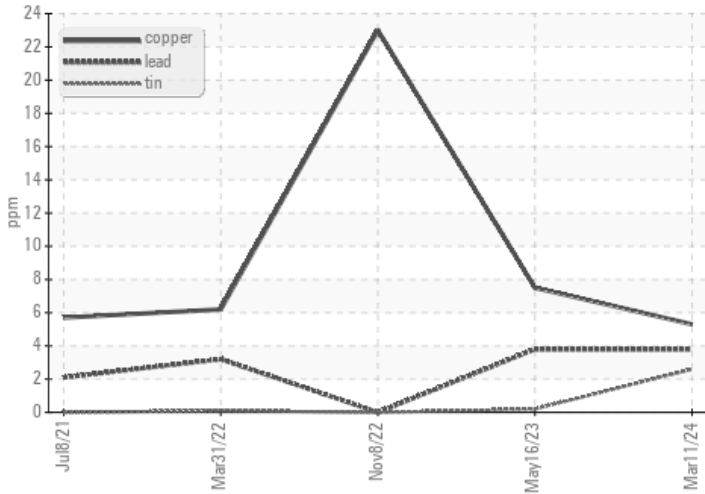


VOLVO GRAPHS

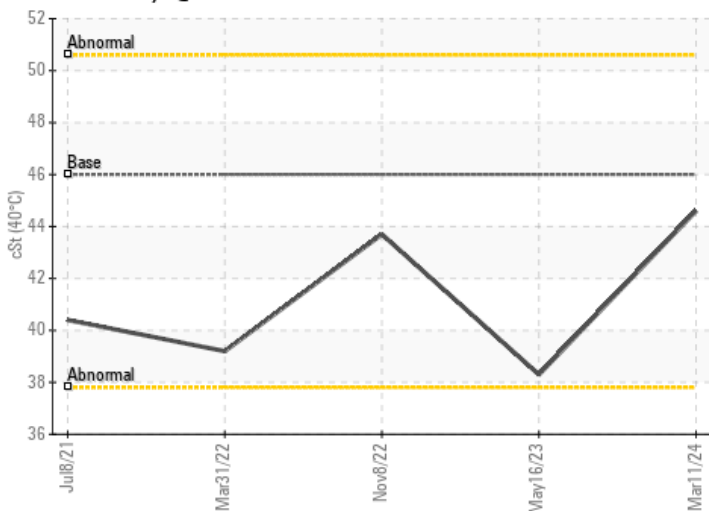
Ferrous Alloys



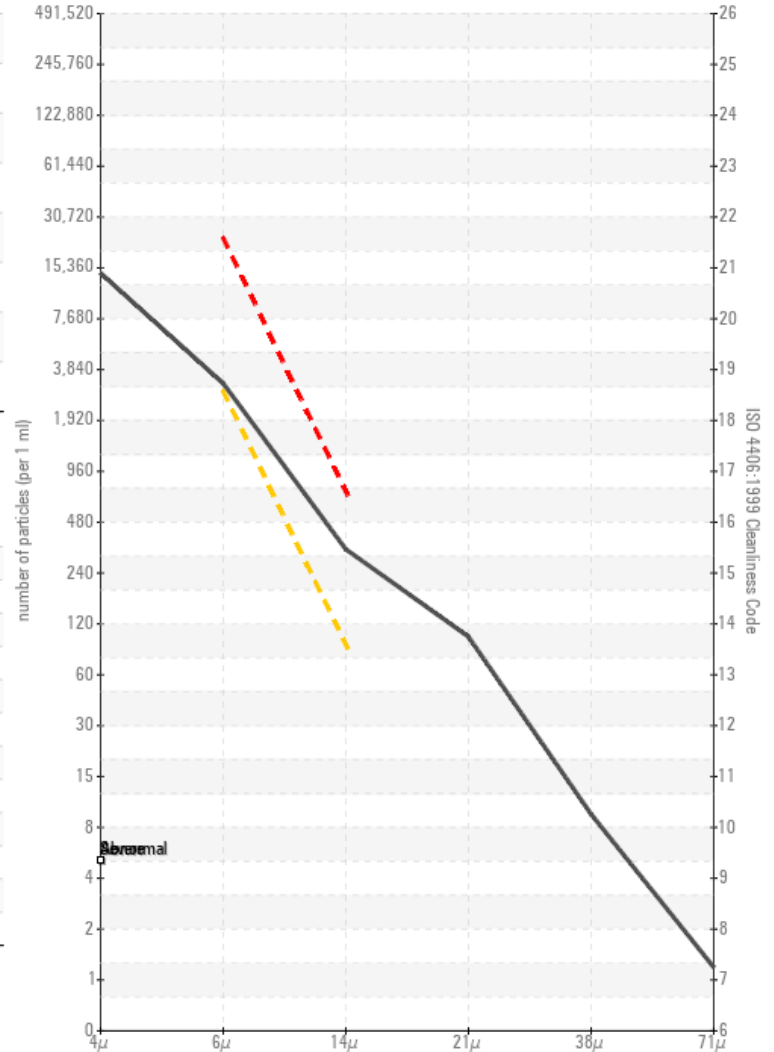
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

