



CONSTRUCTION EQUIPMENT

568171 VOLVO L90H 623733 - HYDRAULIC SYSTEM



Sample No: VCP417235
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 568171



SAMPLE INFORMATION

Sample Number	VCP417235	VCP410266	VCP357427	VCP306204
Sample Date	29 Jun 2023	28 Mar 2023	14 Apr 2022	07 Jul 2021
Machine Hours	6673	11120	9196	7801
Oil Hours	0	3000	1000	3000
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.8	60.4	60.5	60.7
Acid Number (AN)	mg KOH/g	0.34	0.34	0.30	0.348



CONTAMINATION

Particles >4µm		1552	30340	11016	---
Particles >6µm		295	9487	3448	---
Particles >14µm		29	794	288	---
ISO 4406:1999 (c)		18/15/12	22/20/17	21/19/15	---
Silicon	ppm	2	4	4	6
Sodium	ppm	<1	1	1	2
Potassium	ppm	2	<1	0	4

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	7	3	5	6
Copper	ppm	<1	1	2	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	2	<1	1	2
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	82	366	199	106
Magnesium	ppm	13	8	19	31
Zinc	ppm	449	580	453	384
Phosphorus	ppm	351	469	378	343
Barium	ppm	0	<1	0	0
Boron	ppm	1	9	5	4

Depot: VOLVO0096
Unique No: 10545860
Signed: Wes Davis
Report Date: 06 Jul 2023

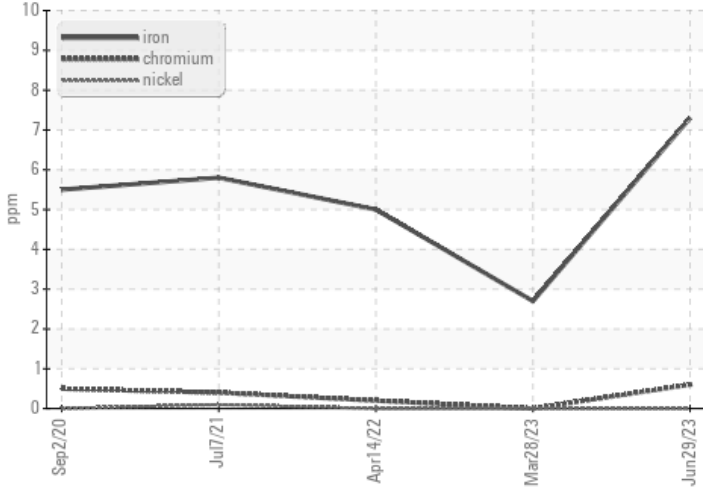


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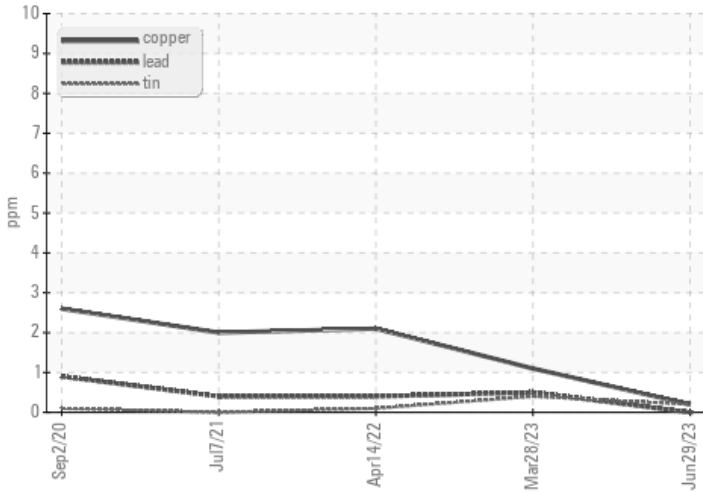


VOLVO GRAPHS

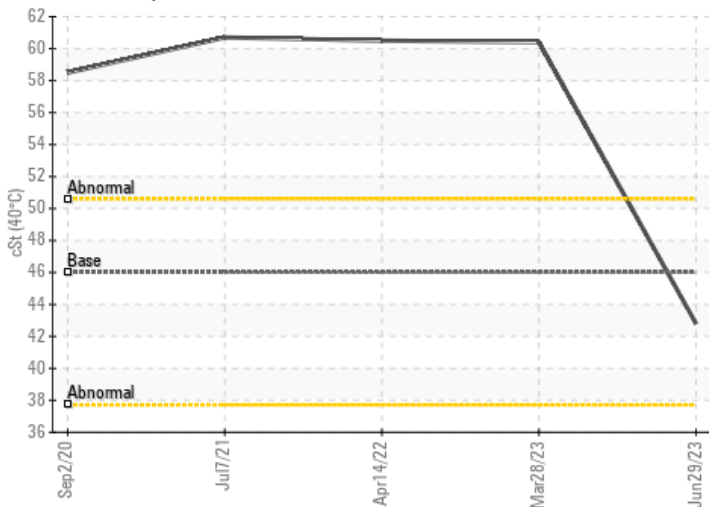
Ferrous Alloys



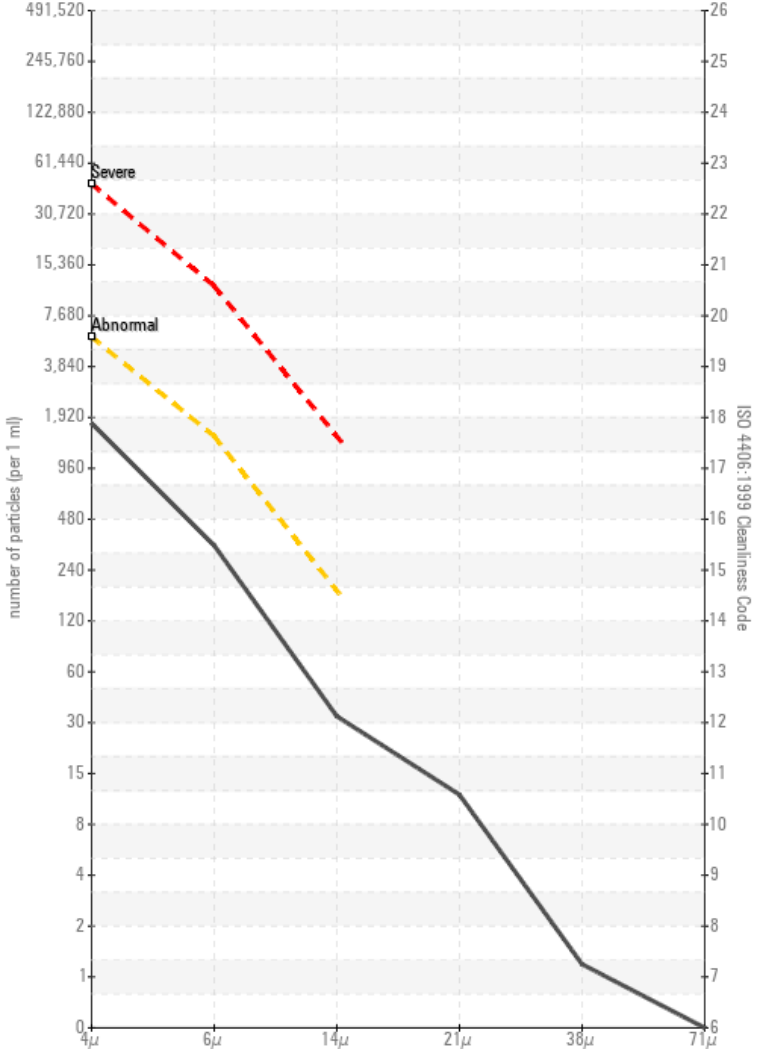
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

