



CONSTRUCTION EQUIPMENT

633079 VOLVO A40G 341352 - HYDRAULIC SYSTEM



Sample No: VCP431764
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 633079



SAMPLE INFORMATION

Sample Number	VCP431764	VCP393948	VCP308890	VCP293105
Sample Date	08 Nov 2023	01 Feb 2023	29 Apr 2021	07 Oct 2020
Machine Hours	8415	7996	5966	5154
Oil Hours	4000	0	800	0
Oil Changed	Changed	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	44.3	44.6	46.0	41.5
Acid Number (AN)	mg KOH/g	0.55	0.47	0.476	1.049



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		1976	16404	2766	---
Particles >6µm		212	4640	731	---
Particles >14µm		9	218	66	---
ISO 4406:1999 (c)		18/15/10	21/19/15	19/17/13	---
Silicon	ppm	7	6	2	7
Sodium	ppm	0	0	3	2
Potassium	ppm	4	3	<1	1

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	6	4	8	5
Copper	ppm	11	5	11	7
Lead	ppm	4	3	4	5
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	0	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	5	5	<1	<1
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	516	482	72	1469
Magnesium	ppm	22	21	2	7
Zinc	ppm	518	515	435	827
Phosphorus	ppm	378	413	345	655
Barium	ppm	0	1	0	0
Boron	ppm	9	6	<1	5

Depot: VOLVO0093
Unique No: 10765001
Signed: Wes Davis
Report Date: 30 Nov 2023

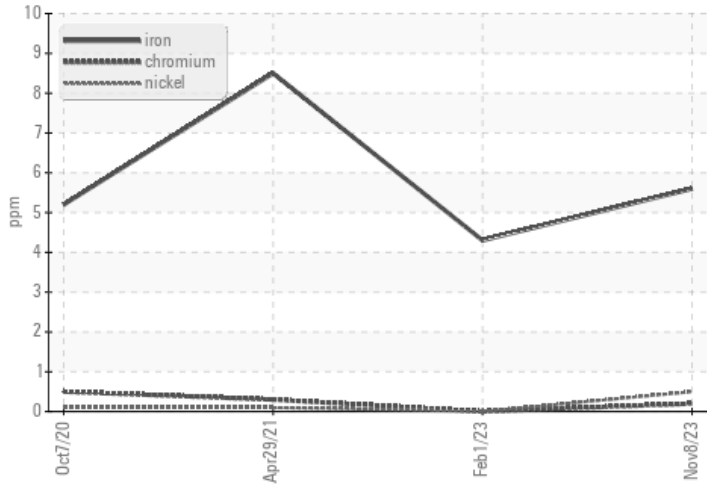


CONSTRUCTION EQUIPMENT

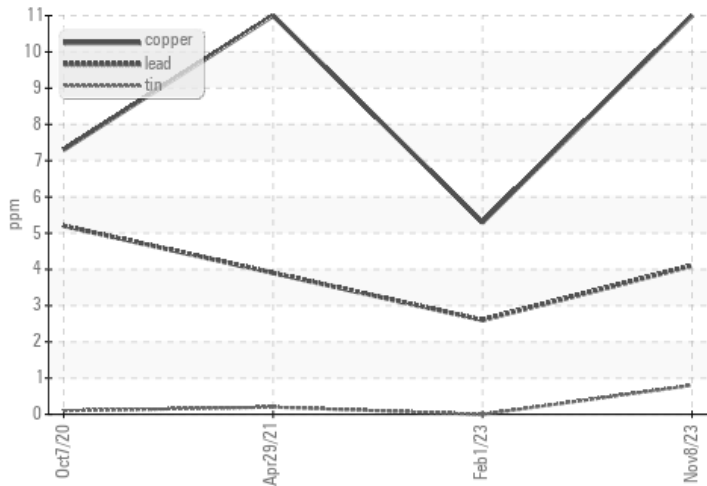


VOLVO GRAPHS

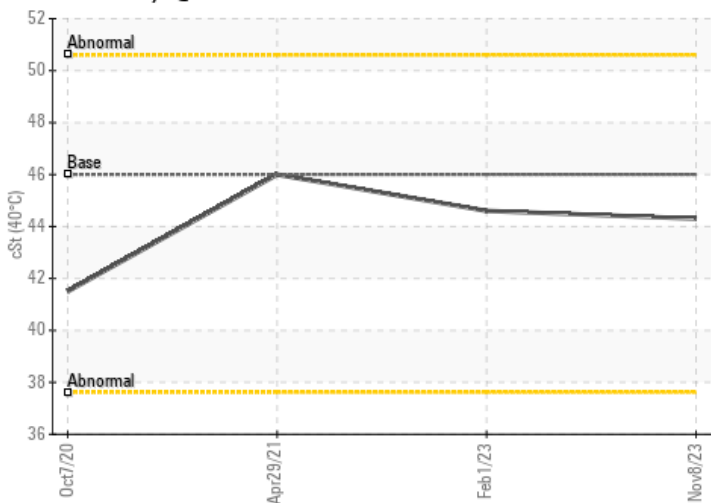
Ferrous Alloys



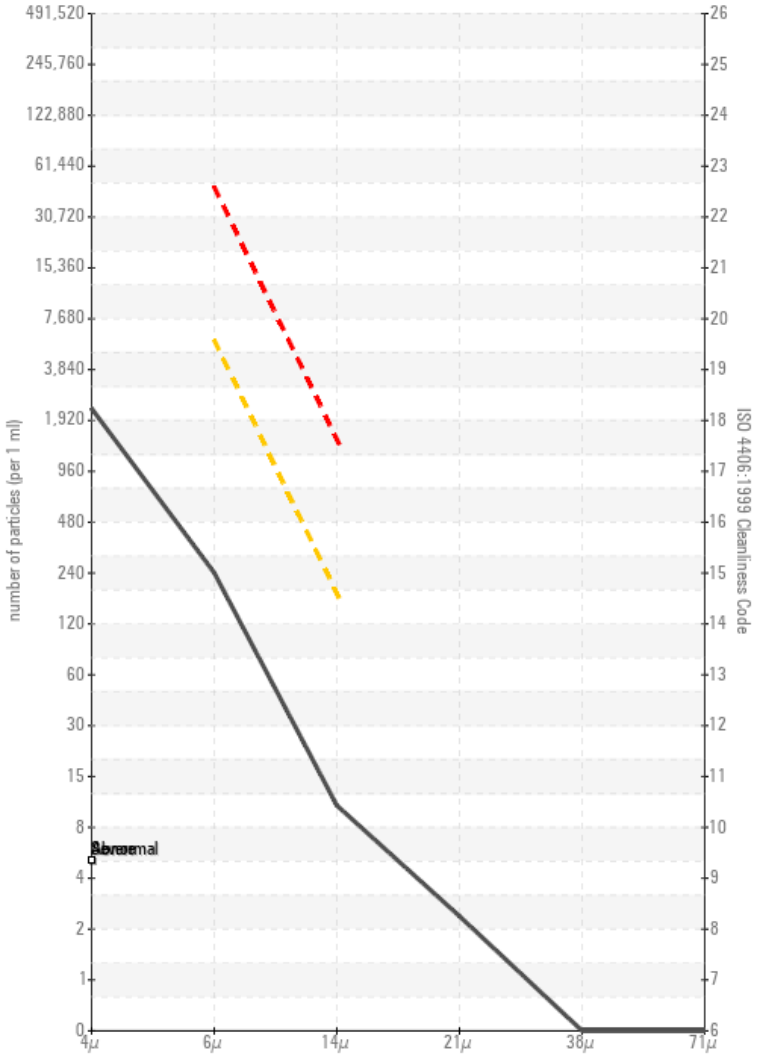
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

