



CONSTRUCTION EQUIPMENT

VOLVO A45G 352372 - HYDRAULIC SYSTEM



Sample No: VCP401277
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP401277	VCP395966	VCP347990	VCP343955
Sample Date	21 Sep 2023	25 Feb 2023	24 Jan 2022	13 Dec 2021
Machine Hours	4940	4273	2299	2295
Oil Hours	4940	1500	0	0
Oil Changed	Not Chngd	Changed	Not Chngd	N/A
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.3	41.3	42.1	43.9
Acid Number (AN)	mg KOH/g	0.38	0.38	0.40	0.353

CONTAMINATION

Particles >4µm		---	2639	1550	1765
Particles >6µm		---	719	295	588
Particles >14µm		---	30	15	61
ISO 4406:1999 (c)		---	19/17/12	18/15/11	18/16/13
Silicon	ppm	6	8	4	4
Sodium	ppm	3	3	2	0
Potassium	ppm	<1	0	0	0

Diagnosis

We recommend you service the filters on this component. Resample at the next service interval to monitor. We were unable to perform a particle count due to metal particles present in this sample. Moderate concentration of visible metal present. All component wear rates are normal. No other contaminants were detected in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.

WEAR METALS

Iron	ppm	5	9	3	4
Copper	ppm	2	2	2	3
Lead	ppm	1	2	2	2
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	3	<1	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	0	0	<1	0
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	82	47	50	52
Magnesium	ppm	5	7	<1	6
Zinc	ppm	420	405	408	404
Phosphorus	ppm	303	319	322	319
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	<1

Depot: VOLVO0090
Unique No: 10668731
Signed: Don Baldrige
Report Date: 28 Sep 2023

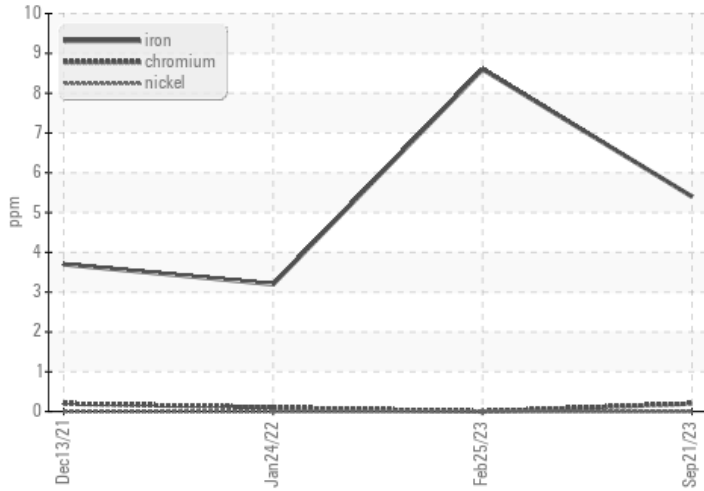


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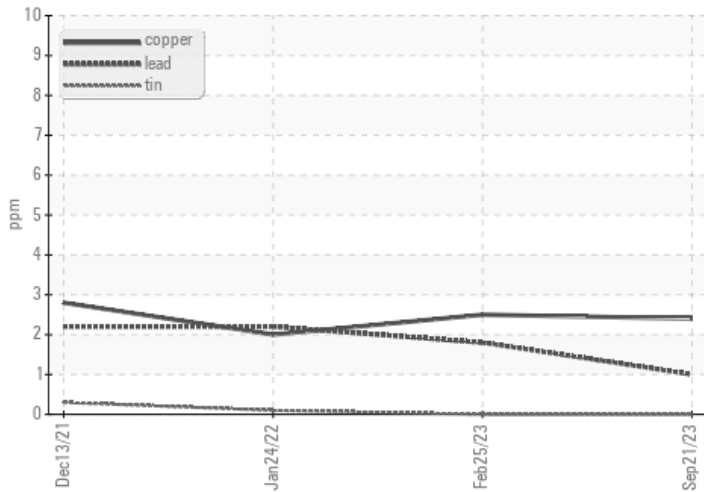


GRAPHS

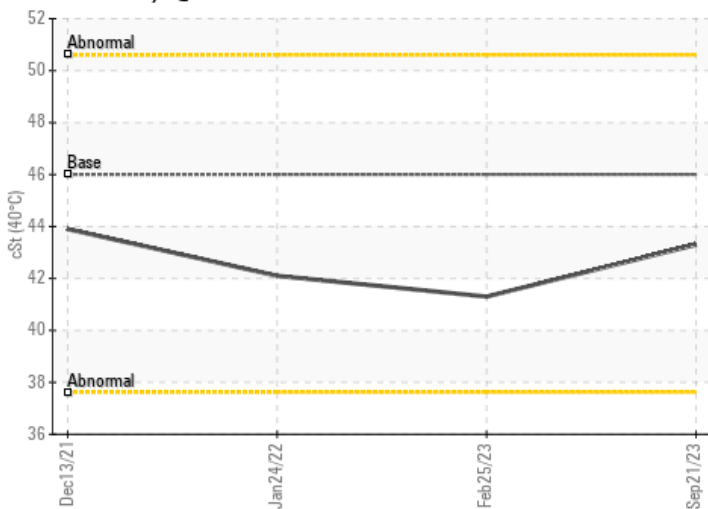
Ferrous Alloys



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

