



CONSTRUCTION EQUIPMENT

VOLVO A40G 340716 - HYDRAULIC SYSTEM



Sample No: VCP431058
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP431058	VCP419107	VCP396172	VCP365635
Sample Date	05 Dec 2023	30 Aug 2023	26 Apr 2023	23 Nov 2022
Machine Hours	9440	8929	8381	7881
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	42.8	51.9	51.4	60.3
Acid Number (AN)	mg KOH/g	0.78	0.37	0.32	0.43



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		4778	11530	1195	5703
Particles >6µm		1372	794	195	2186
Particles >14µm		94	15	12	186
ISO 4406:1999 (c)		19/18/14	21/17/11	17/15/11	20/18/15
Silicon	ppm	2	2	2	2
Sodium	ppm	<1	3	2	2
Potassium	ppm	0	<1	<1	1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	56	82	78	103
Magnesium	ppm	219	5	13	12
Zinc	ppm	701	492	423	532
Phosphorus	ppm	612	358	314	336
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: SAIBIR
Unique No: 10783226
Signed: Don Baldrige
Report Date: 17 Dec 2023

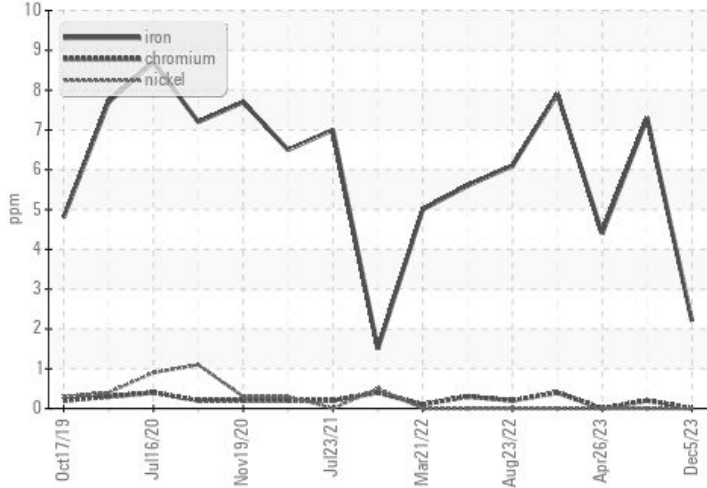


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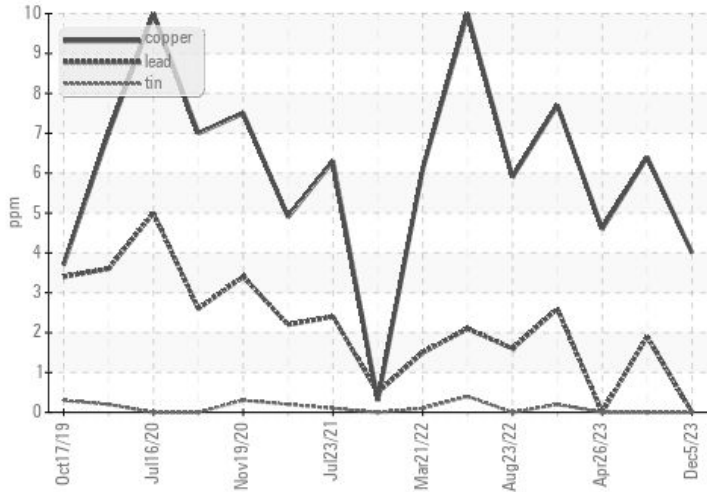


VOLVO GRAPHS

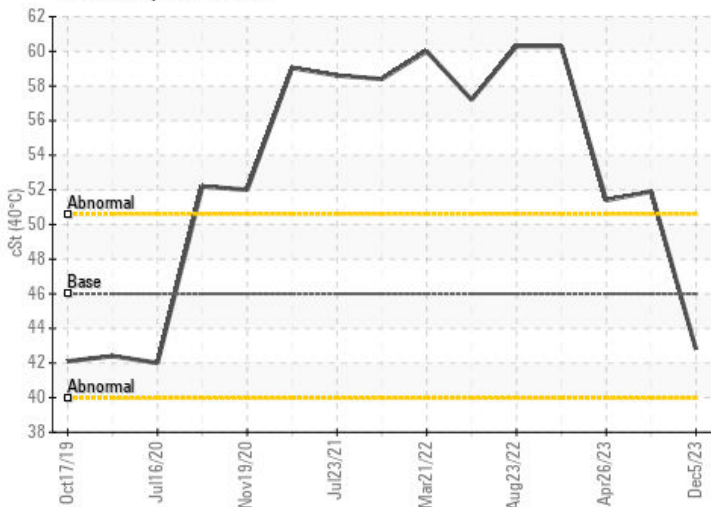
Ferrous Alloys



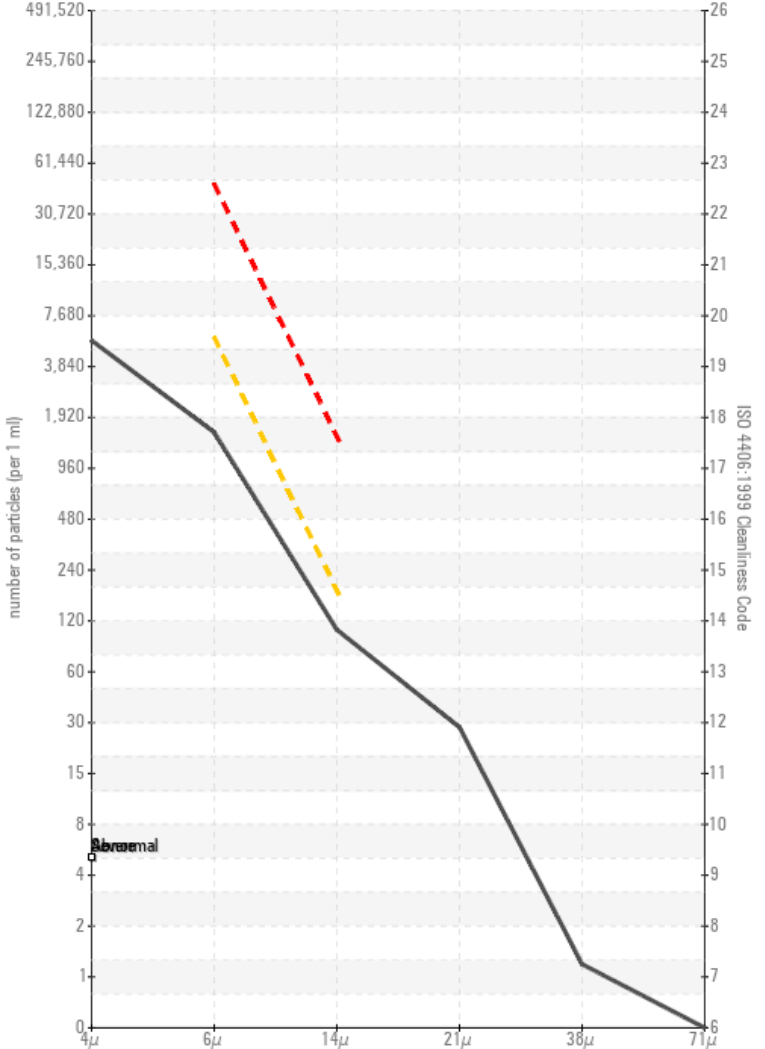
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

