



CONSTRUCTION EQUIPMENT

VOLVO A40G 340716 - HYDRAULIC SYSTEM



Sample No: VCP419107
Oil Type: AW HYDRAULIC OIL ISO 46
Job No:



SAMPLE INFORMATION

Sample Number	VCP419107	VCP396172	VCP365635	VCP375638
Sample Date	30 Aug 2023	26 Apr 2023	23 Nov 2022	23 Aug 2022
Machine Hours	8929	8381	7881	7326
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	51.9	51.4	▲ 60.3	▲ 60.3
Acid Number (AN)	mg KOH/g	0.37	0.32	0.43	0.58

CONTAMINATION

Particles >4µm		11530	1195	5703	2430
Particles >6µm		794	195	2186	608
Particles >14µm		15	12	▲ 186	50
ISO 4406:1999 (c)		21/17/11	17/15/11	20/18/15	18/16/13
Silicon	ppm	2	2	2	1
Sodium	ppm	3	2	2	3
Potassium	ppm	<1	<1	1	0

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

ADDITIVES

Calcium	ppm	82	78	103	98
Magnesium	ppm	5	13	12	11
Zinc	ppm	492	423	532	547
Phosphorus	ppm	358	314	336	363
Barium	ppm	0	0	0	<1
Boron	ppm	0	0	<1	0

Depot: SAIBIR
Unique No: 10643164
Signed: Don Baldrige
Report Date: 13 Sep 2023

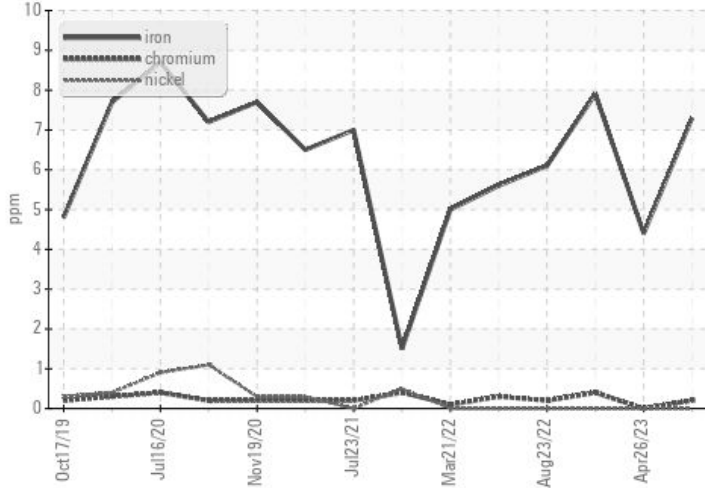


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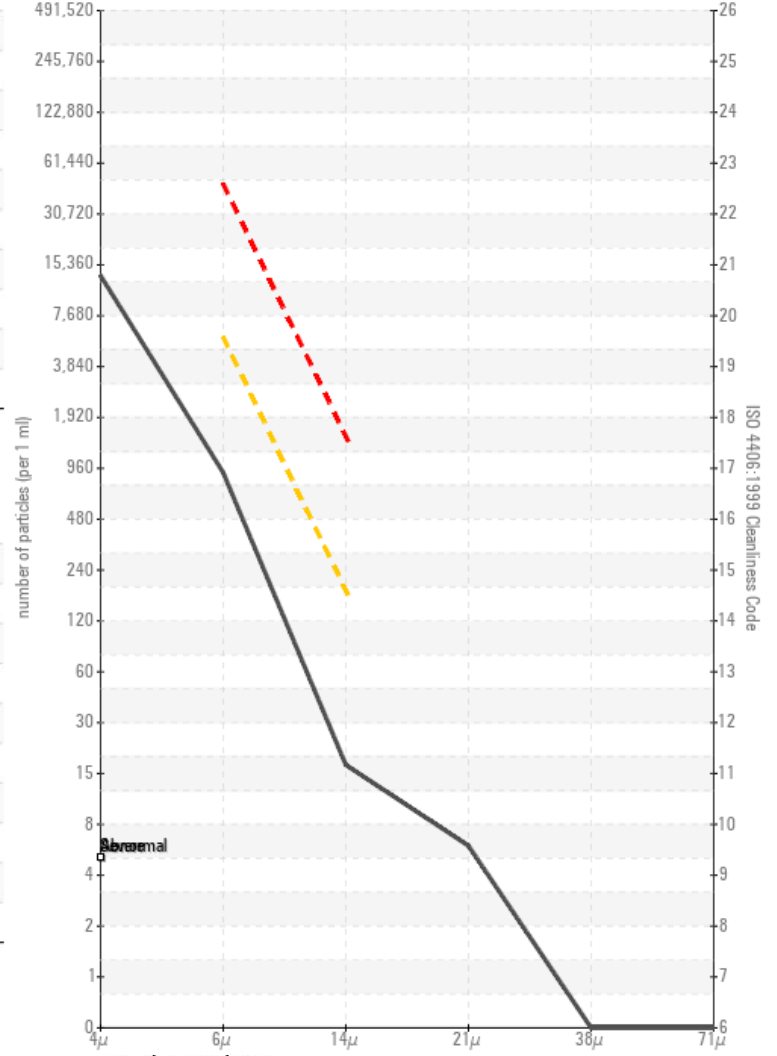


GRAPHS

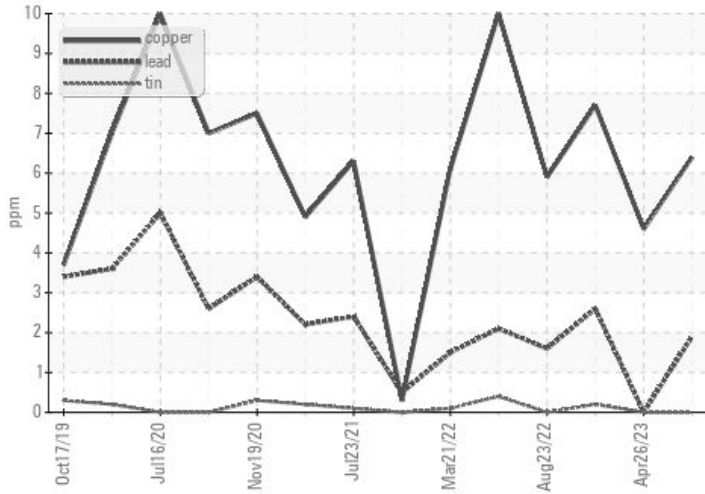
Ferrous Alloys



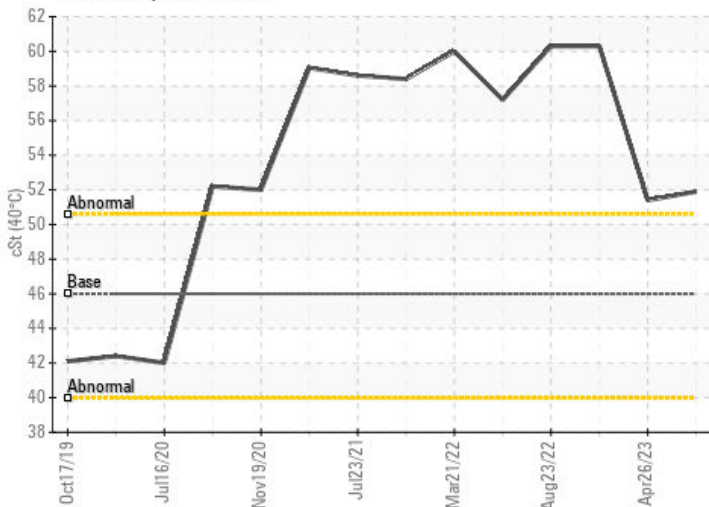
Particle Count



Non-ferrous Metals



Viscosity @ 40°C



Acid Number

