



CONSTRUCTION EQUIPMENT

VOLVO A40G 342610 - HYDRAULIC SYSTEM



Sample No: VCP362647

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP362647	VCP406471	VCP398292	VCP379373
Sample Date	24 Oct 2023	13 Jul 2023	27 Apr 2023	16 Jan 2023
Machine Hours	10504	9910	9441	8766
Oil Hours	1738	1144	675	1875
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ATTENTION



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OIL CONDITION

Visc @ 40°C	cSt	39.9	39.64	39.8	39.8
Acid Number (AN)	mg KOH/g	0.93	1.16	1.02	1.20



CONTAMINATION

Particles >4µm		28374	13398	16314	20067
Particles >6µm		10019	3949	3765	5404
Particles >14µm		685	142	114	239
ISO 4406:1999 (c)		22/21/17	21/19/14	21/19/14	22/20/15
Silicon	ppm	15	14	15	15
Sodium	ppm	4	3	4	0
Potassium	ppm	<1	0	0	2

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	2797	3058	2919	3069
Magnesium	ppm	28	31	30	26
Zinc	ppm	1008	1057	1018	1049
Phosphorus	ppm	830	849	822	862
Barium	ppm	0	0	0	0
Boron	ppm	3	2	3	1

Depot: SCHGRE
Unique No: 10723885
Signed: Don Baldrige
Report Date: 02 Nov 2023

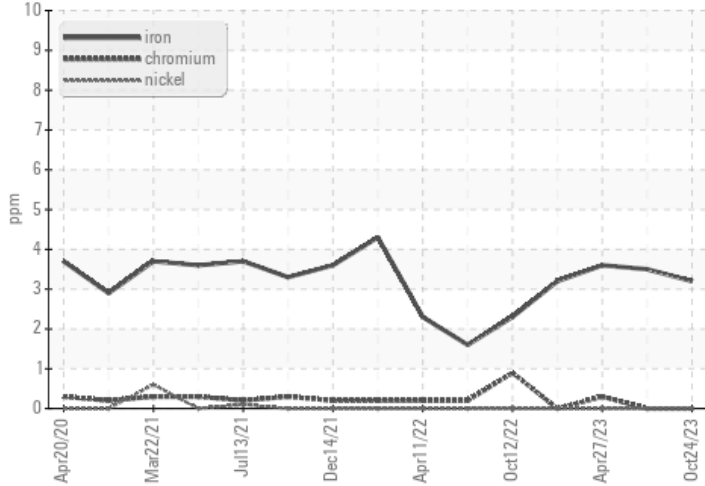


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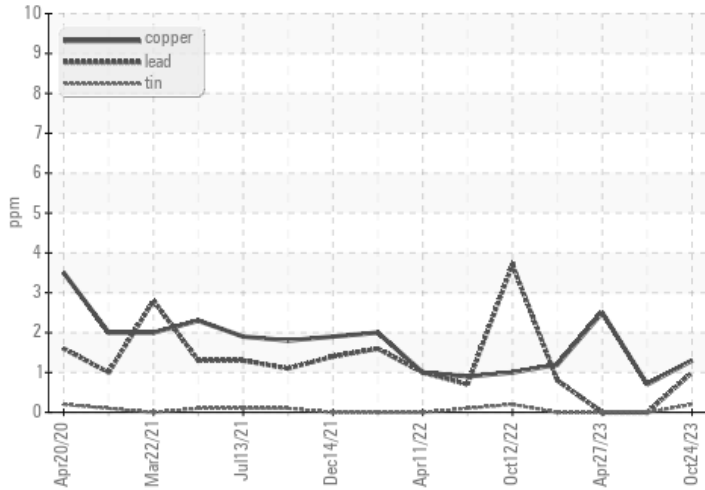


GRAPHS

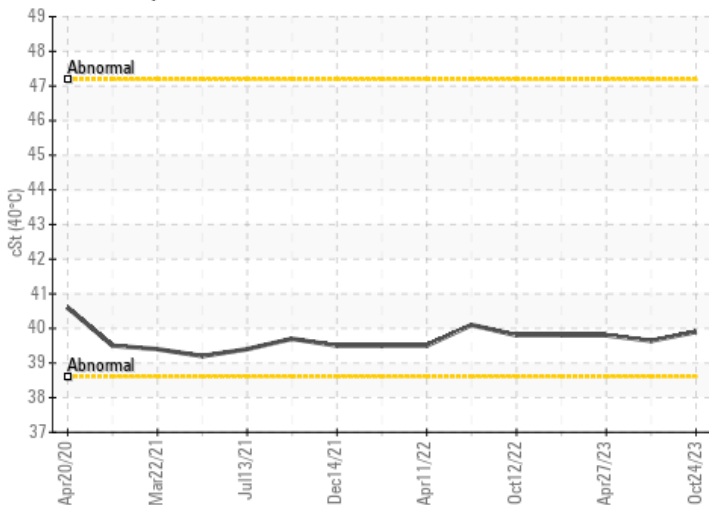
Ferrous Alloys



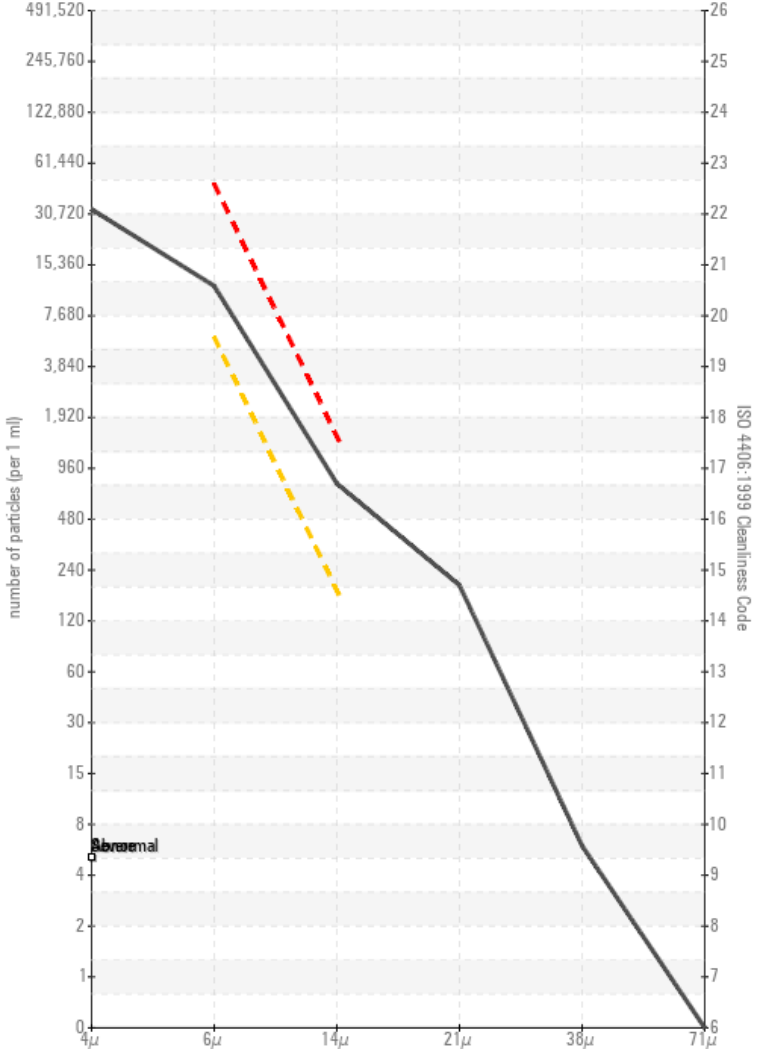
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

