



CONSTRUCTION EQUIPMENT

VOLVO A40G 352351 - HYDRAULIC SYSTEM



Sample No: VCP406467

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP406467	VCP385147	VCP378249	VCP362742
Sample Date	13 Jul 2023	27 Apr 2023	16 Jan 2023	12 Oct 2022
Machine Hours	6886	6384	5717	5210
Oil Hours	1169	667	2134	1627
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 40°C	cSt	40.1	40.1	40.4	40.5
Acid Number (AN)	mg KOH/g	0.95	0.93	0.83	0.77



CONTAMINATION

Particles >4µm		42114	5392	1279	15121
Particles >6µm		16887	1097	286	2433
Particles >14µm		1630	41	15	54
ISO 4406:1999 (c)		23/21/18	20/17/13	17/15/11	21/18/13
Silicon	ppm	12	14	12	11
Sodium	ppm	2	4	<1	4
Potassium	ppm	0	0	1	0

Diagnosis

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



ADDITIVES

Calcium	ppm	2554	2399	1888	1829
Magnesium	ppm	23	22	16	15
Zinc	ppm	931	887	804	818
Phosphorus	ppm	749	720	636	650
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	0	0

Depot: SCHGRE
Unique No: 10586387
Signed: Jonathan Hester
Report Date: 04 Aug 2023

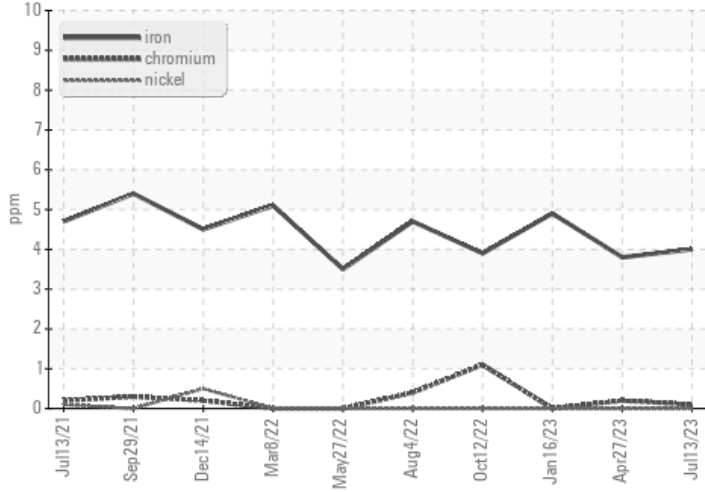


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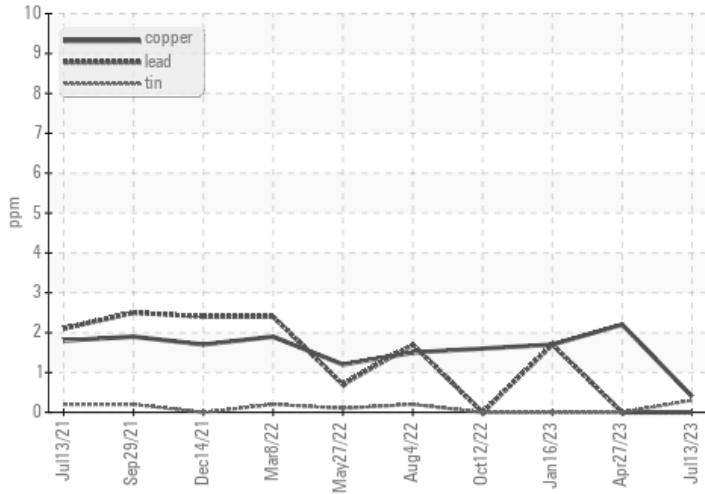


GRAPHS

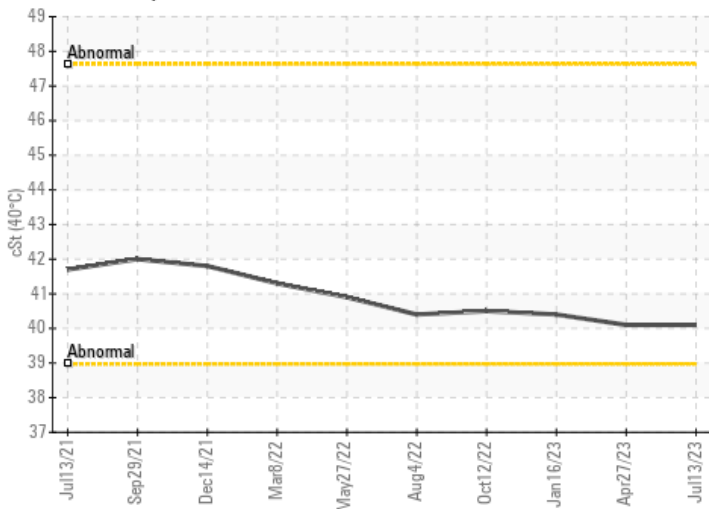
Ferrous Alloys



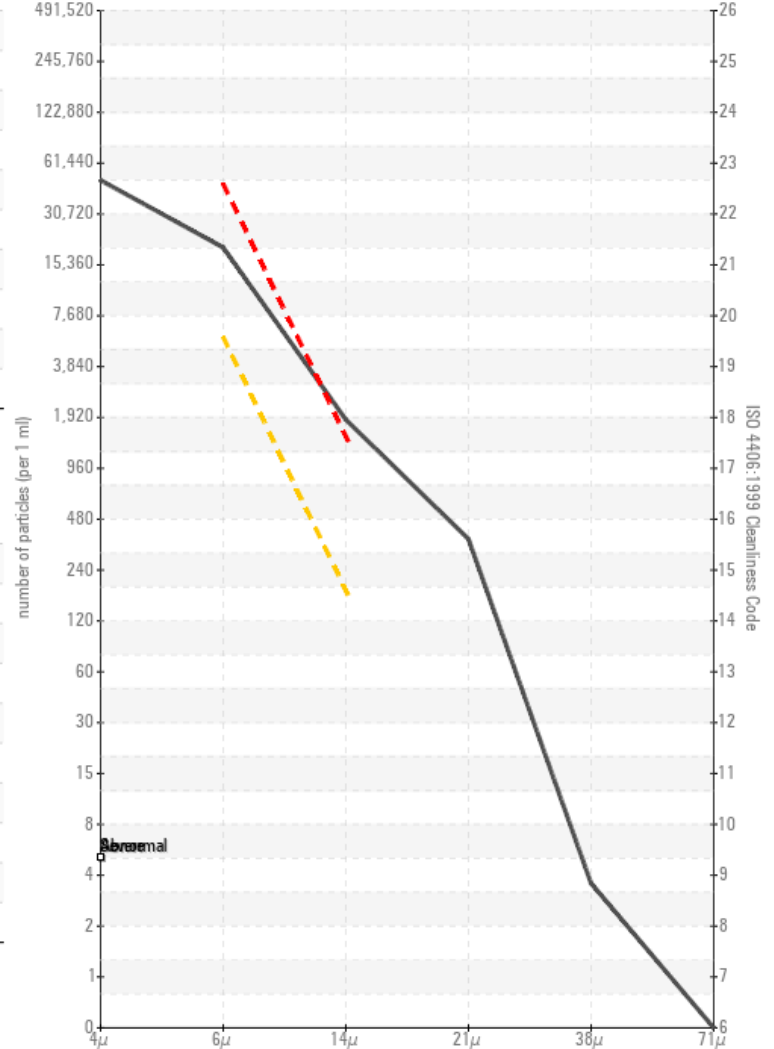
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

