



CONSTRUCTION EQUIPMENT

VOLVO A40G 352351 - HYDRAULIC SYSTEM



Sample No: VCP339687

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP339687	VCP406467	VCP385147	VCP378249
Sample Date	03 Oct 2023	13 Jul 2023	27 Apr 2023	16 Jan 2023
Machine Hours	7502	6886	6384	5717
Oil Hours	1785	1169	667	2134
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	40.1	40.1	40.1	40.4
Acid Number (AN)	mg KOH/g	0.96	0.95	0.93	0.83



CONTAMINATION

Particles >4µm		37110	42114	5392	1279
Particles >6µm		11543	16887	1097	286
Particles >14µm		483	1630	41	15
ISO 4406:1999 (c)		22/21/16	23/21/18	20/17/13	17/15/11
Silicon	ppm	14	12	14	12
Sodium	ppm	4	2	4	<1
Potassium	ppm	0	0	0	1

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



ADDITIVES

Calcium	ppm	2465	2554	2399	1888
Magnesium	ppm	19	23	22	16
Zinc	ppm	898	931	887	804
Phosphorus	ppm	739	749	720	636
Barium	ppm	0	0	0	0
Boron	ppm	1	<1	2	0

Depot: SCHGRE
Unique No: 10700847
Signed: Don Baldrige
Report Date: 20 Oct 2023

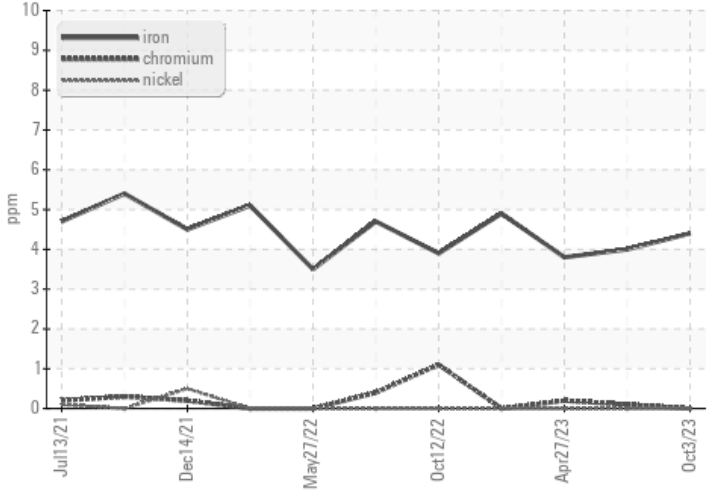


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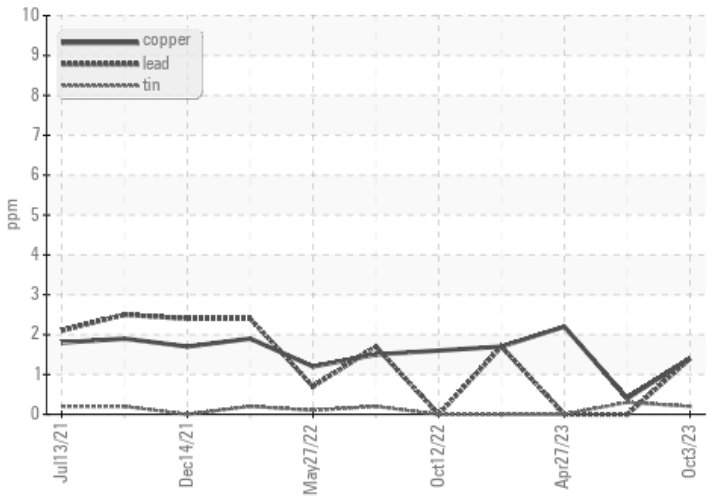


GRAPHS

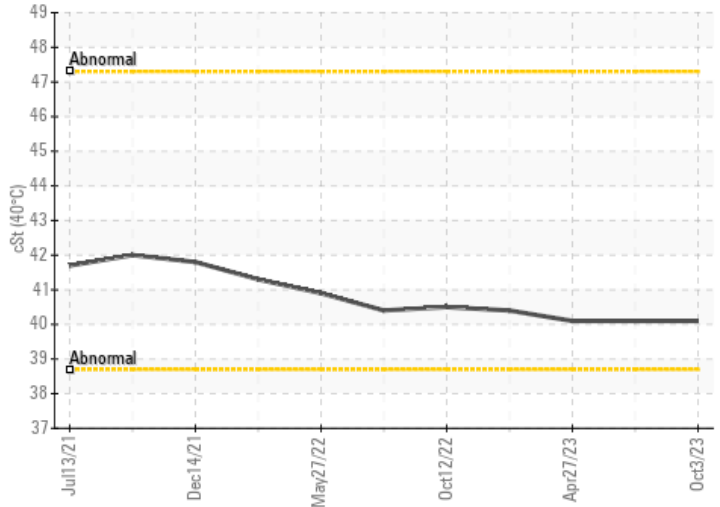
Ferrous Alloys



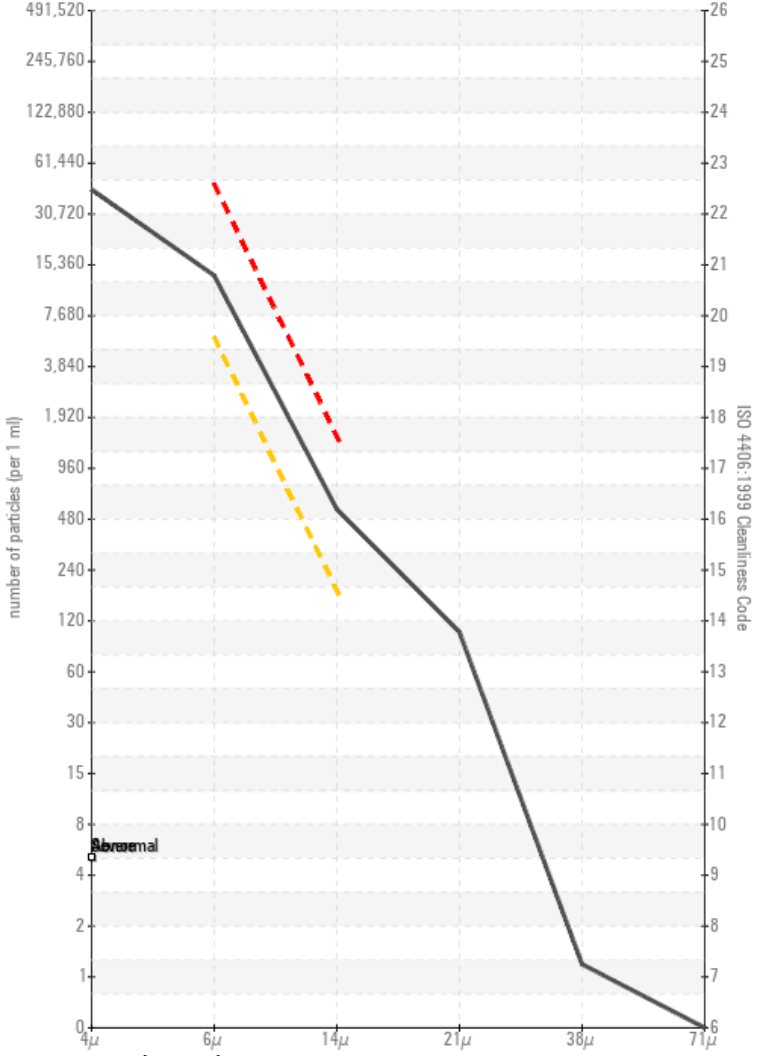
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

