



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - HYDRAULIC SYSTEM



Sample No: VCP312539
Oil Type: MOBIL 10W
Job No:



SAMPLE INFORMATION

Sample Number	VCP312539	VCP406126	VCP405725	VCP384420
Sample Date	24 Oct 2023	01 Aug 2023	20 Jun 2023	27 Mar 2023
Machine Hours	16708	16113	15839	15225
Oil Hours	595	2004	1730	1116
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	40.0	39.6	39.9	39.9
Acid Number (AN)	mg KOH/g	0.21	1.22	1.25	1.37



CONTAMINATION

Particles >4µm		1022	817	11723	2276
Particles >6µm		370	241	4004	521
Particles >14µm		31	19	336	12
ISO 4406:1999 (c)		17/16/12	17/15/11	21/19/16	18/16/11
Silicon	ppm	13	14	14	15
Sodium	ppm	3	3	2	<1
Potassium	ppm	0	0	1	2

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	3190	3042	3356	3042
Magnesium	ppm	29	25	26	22
Zinc	ppm	1095	1066	1210	1079
Phosphorus	ppm	898	851	971	886
Barium	ppm	0	0	0	0
Boron	ppm	4	3	3	3

Depot: SCHGRE
Unique No: 10723870
Signed: Don Baldrige
Report Date: 02 Nov 2023

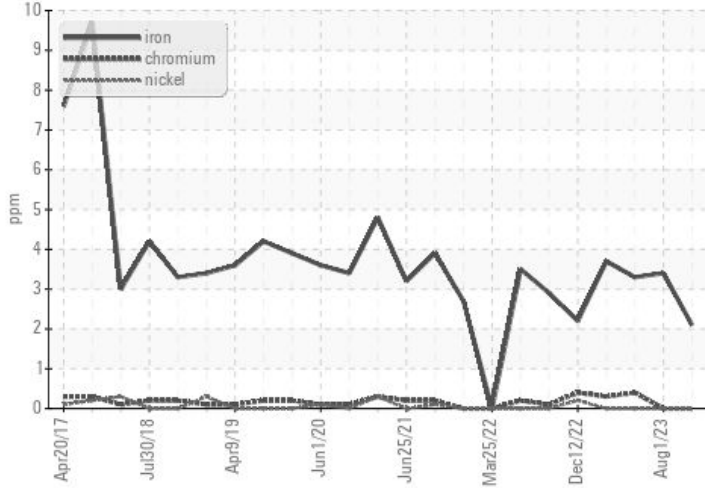


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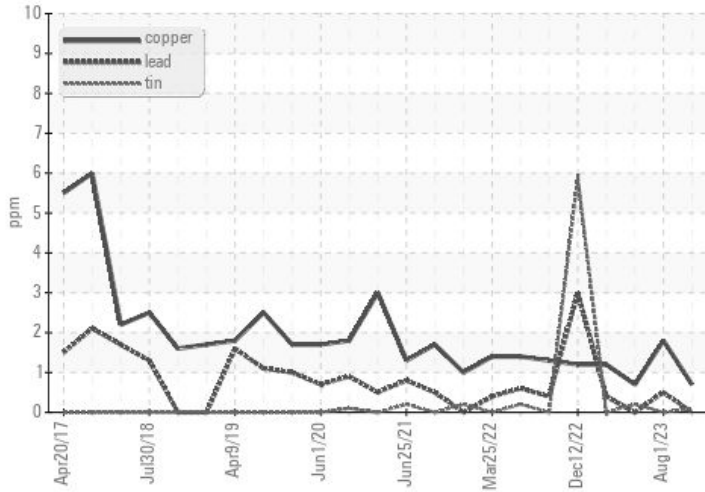


GRAPHS

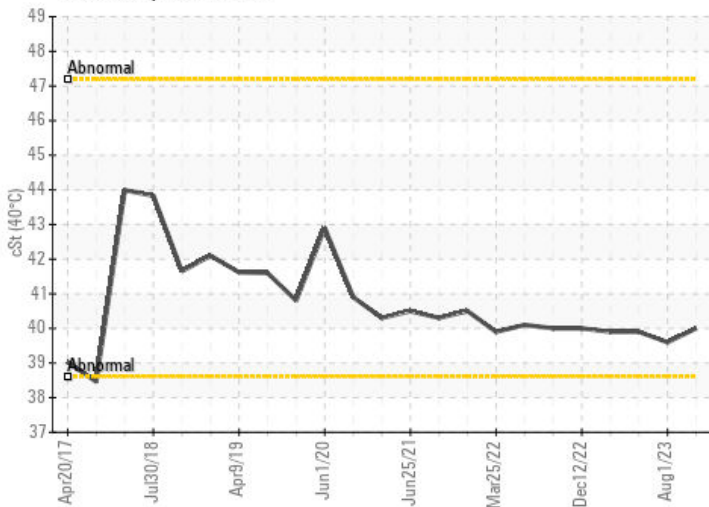
Ferrous Alloys



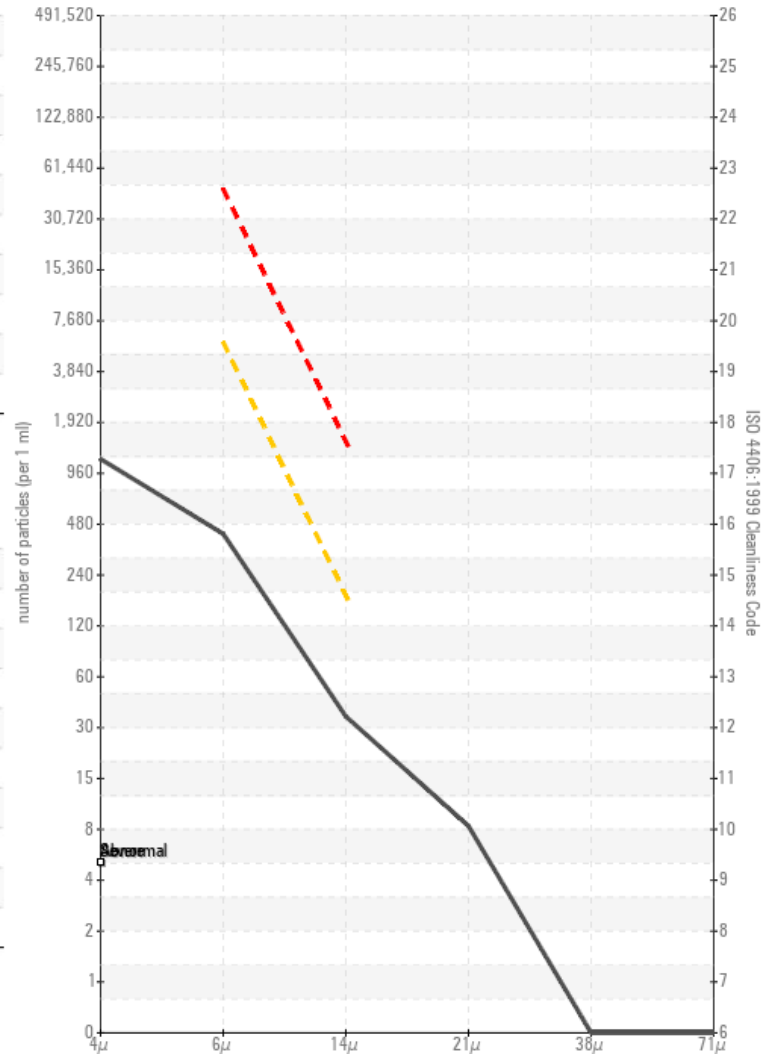
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

