



CONSTRUCTION EQUIPMENT

VOLVO A40G 352026 - HYDRAULIC SYSTEM



Sample No: VCP395125

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP395125	VCP402910	VCP406084	VCP385100
Sample Date	30 Oct 2023	29 Aug 2023	22 Mar 2023	06 Dec 2022
Machine Hours	9458	9029	7981	7465
Oil Hours	1993	1564	516	2002
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	40.4	40.5	40.4	40.6
Acid Number (AN)	mg KOH/g	1.09	1.10	1.13	1.01



CONTAMINATION

Particles >4µm		4336	3832	50393	24426
Particles >6µm		1488	698	15048	8170
Particles >14µm		98	33	382	291
ISO 4406:1999 (c)		19/18/14	19/17/12	23/21/16	22/20/15
Silicon	ppm	17	15	15	15
Sodium	ppm	0	4	0	5
Potassium	ppm	2	0	1	0

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



ADDITIVES

Calcium	ppm	2993	2893	2981	2560
Magnesium	ppm	22	20	21	24
Zinc	ppm	1044	974	1028	987
Phosphorus	ppm	833	787	837	814
Barium	ppm	0	0	0	0
Boron	ppm	2	<1	<1	3

Depot: SCHGRE
Unique No: 10736606
Signed: Don Baldrige
Report Date: 13 Nov 2023

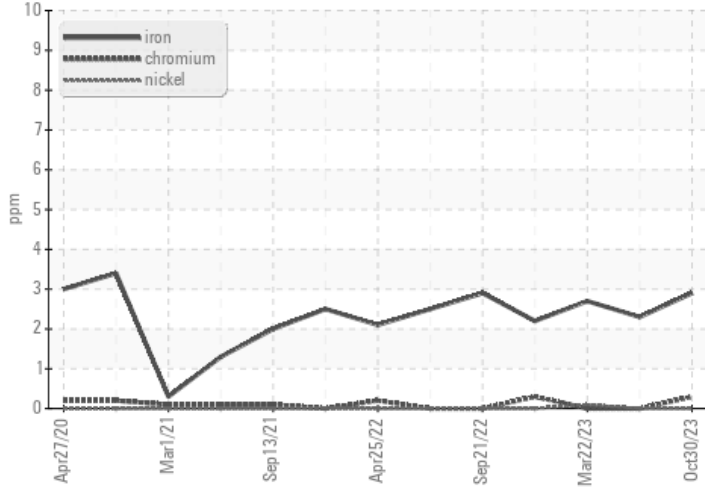


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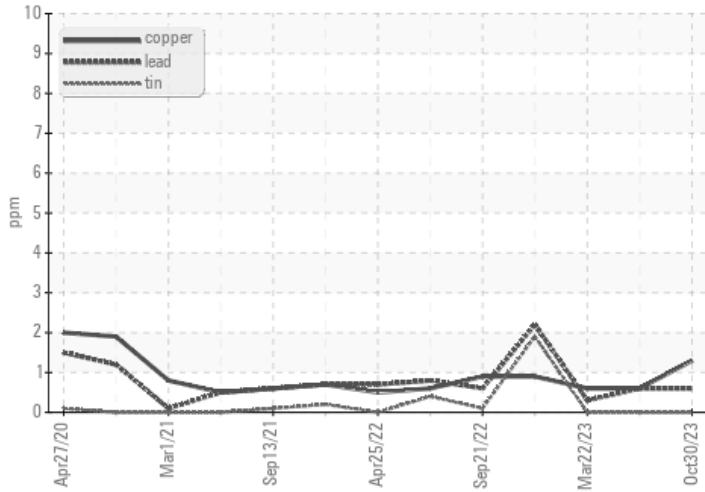


GRAPHS

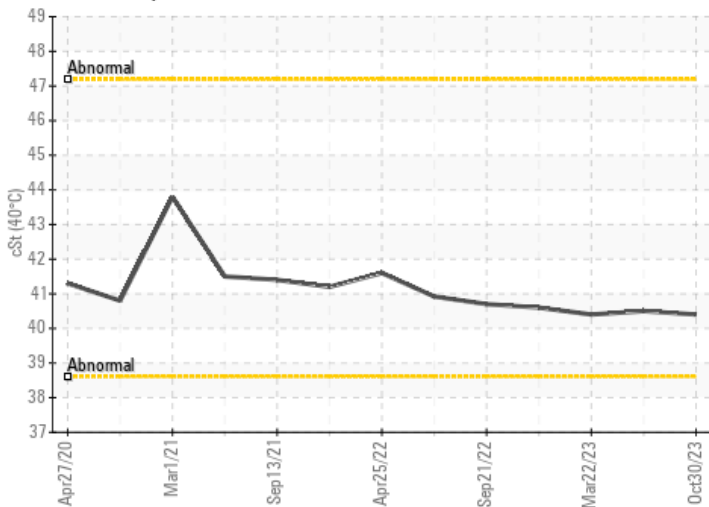
Ferrous Alloys



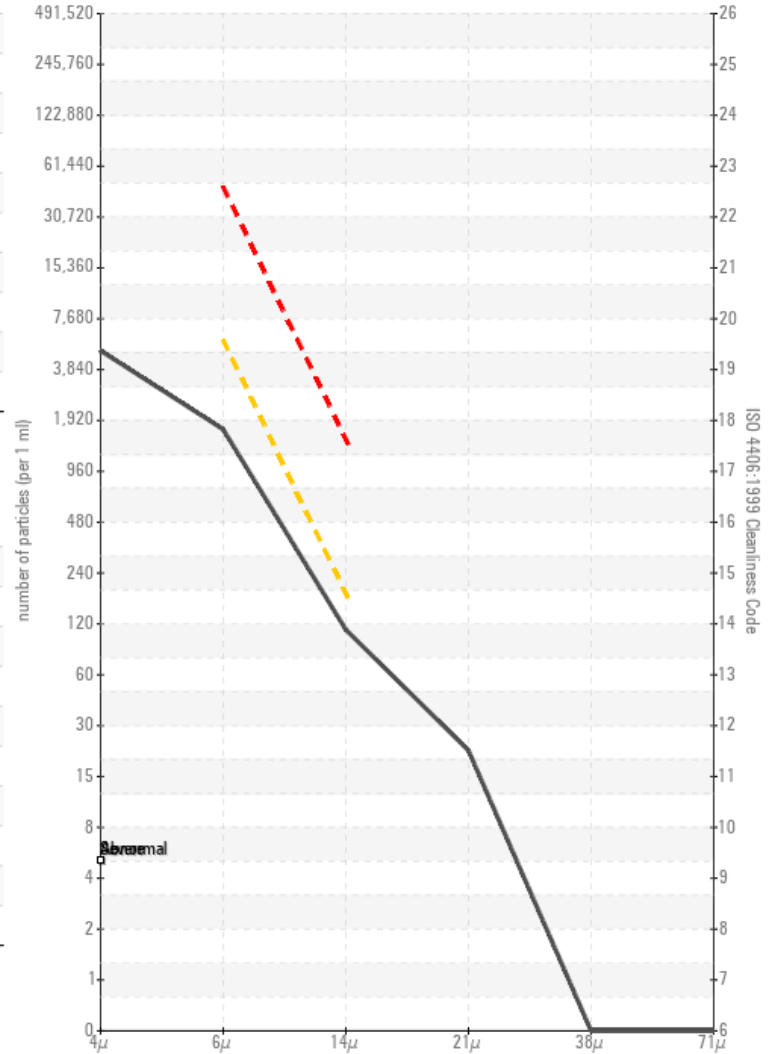
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

