



CONSTRUCTION EQUIPMENT

VOLVO A40G 352351 - HYDRAULIC SYSTEM



Sample No: VCP339708

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP339708	VCP339687	VCP406467	VCP385147
Sample Date	07 Nov 2023	03 Oct 2023	13 Jul 2023	27 Apr 2023
Machine Hours	7750	7502	6886	6384
Oil Hours	2033	1785	1169	667
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

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



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		816	37110	42114	5392
Particles >6µm		144	11543	16887	1097
Particles >14µm		9	483	1630	41
ISO 4406:1999 (c)		17/14/10	22/21/16	23/21/18	20/17/13
Silicon	ppm	14	14	12	14
Sodium	ppm	0	4	2	4
Potassium	ppm	3	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The amount and size of particulates present in the system are acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	2604	2465	2554	2399
Magnesium	ppm	20	19	23	22
Zinc	ppm	947	898	931	887
Phosphorus	ppm	793	739	749	720
Barium	ppm	0	0	0	0
Boron	ppm	<1	1	<1	2

Depot: SCHGRE
Unique No: 10755446
Signed: Jonathan Hester
Report Date: 28 Nov 2023

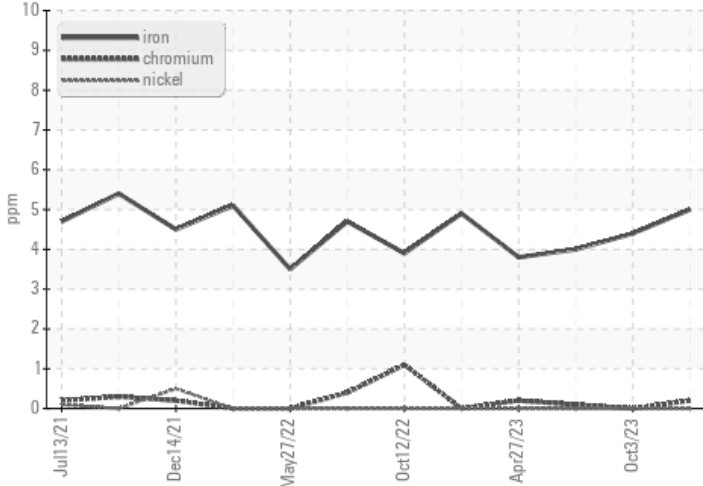


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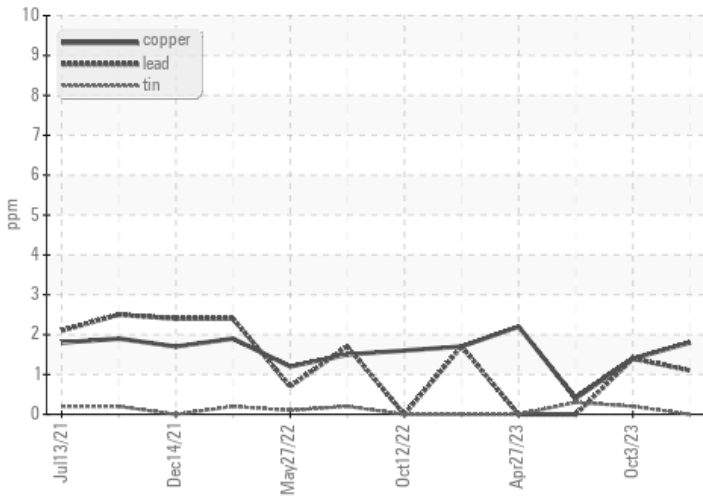


GRAPHS

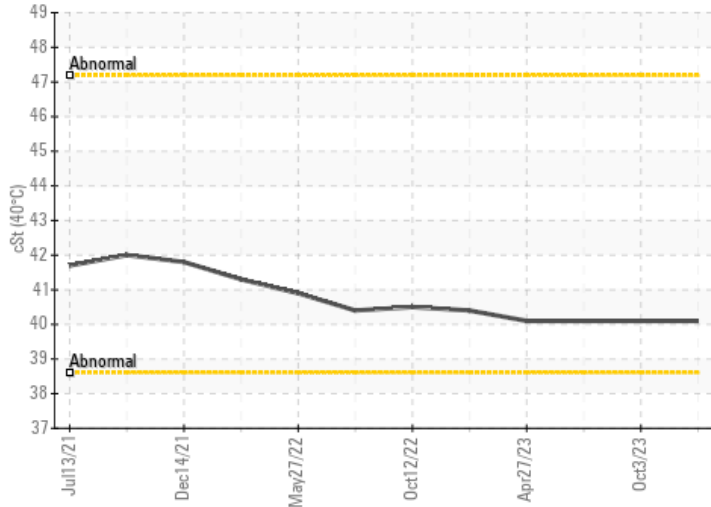
Ferrous Alloys



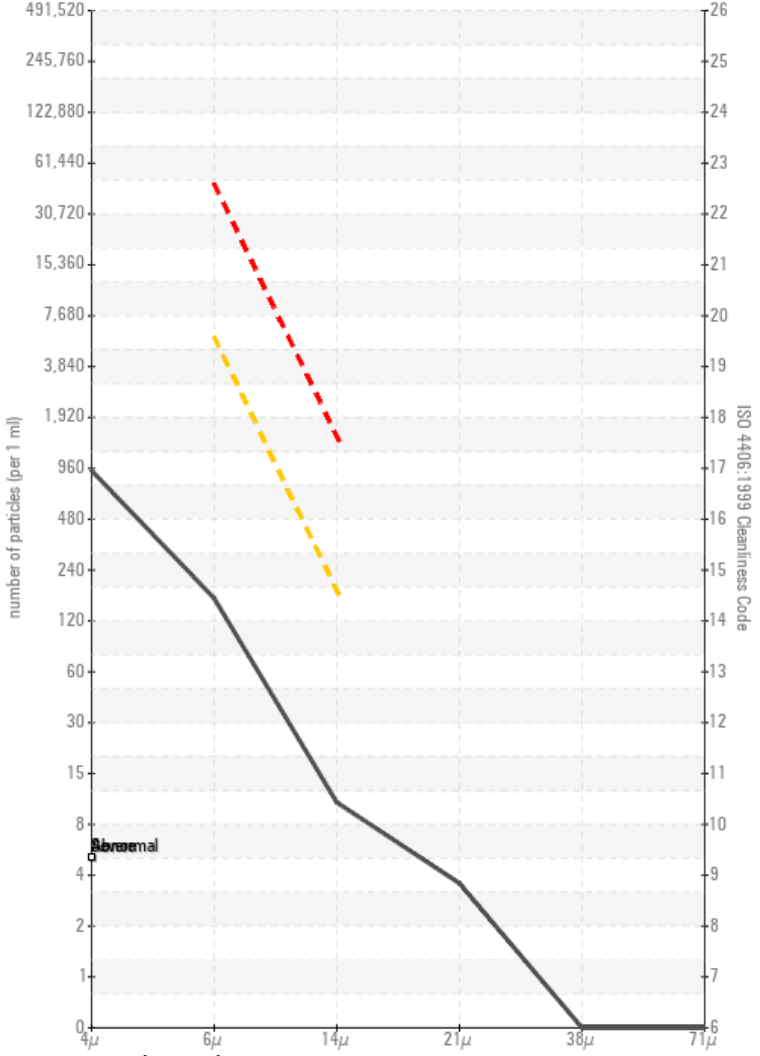
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

