



CONSTRUCTION EQUIPMENT

VOLVO A40G 341462 - HYDRAULIC SYSTEM



Sample No: VCP312992

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP312992	VCP312565	VCP359545	VCP385203
Sample Date	14 Nov 2023	01 Sep 2023	13 Apr 2023	24 Jan 2023
Machine Hours	17072	16607	15664	15179
Oil Hours	1408	943	2100	1615
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.9	41.7	39.9	39.9
Acid Number (AN)	mg KOH/g	1.20	1.19	1.15	1.45



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		11254	17162	10024	83452
Particles >6µm		3779	3847	2243	30419
Particles >14µm		230	133	72	1570
ISO 4406:1999 (c)		21/19/15	21/19/14	21/18/13	24/22/18
Silicon	ppm	13	14	15	14
Sodium	ppm	0	3	4	4
Potassium	ppm	3	0	0	0

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



ADDITIVES

Calcium	ppm	3279	2985	3060	3055
Magnesium	ppm	26	31	30	27
Zinc	ppm	1134	1090	1076	1043
Phosphorus	ppm	953	880	889	861
Barium	ppm	0	0	0	0
Boron	ppm	3	1	2	<1

Depot: SCHGRE
Unique No: 10755445
Signed: Jonathan Hester
Report Date: 28 Nov 2023

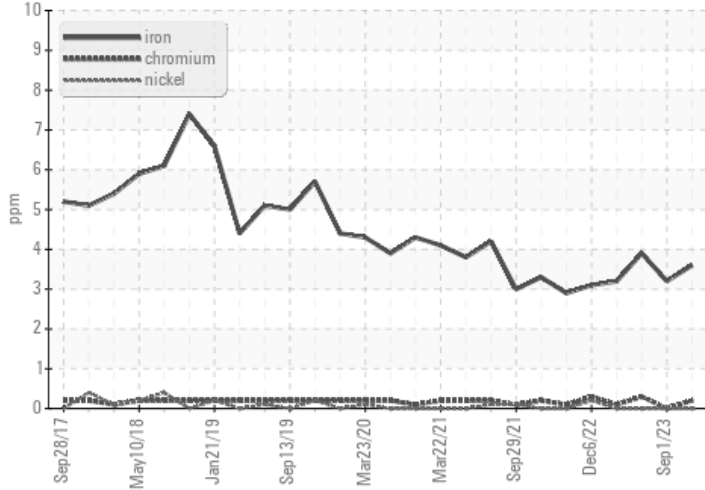


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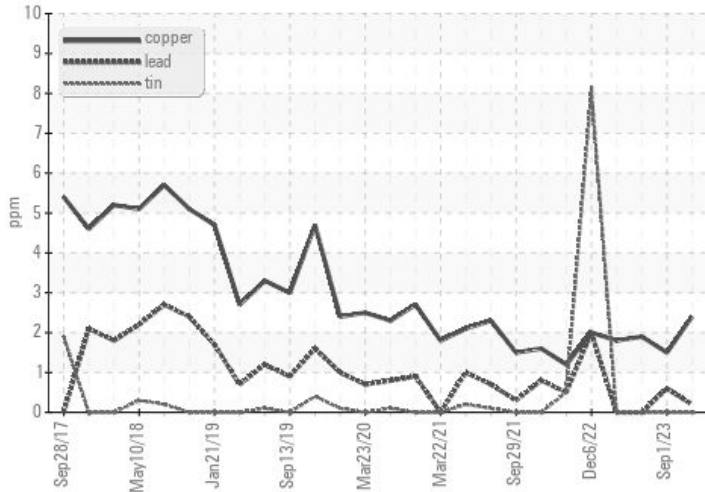


VOLVO GRAPHS

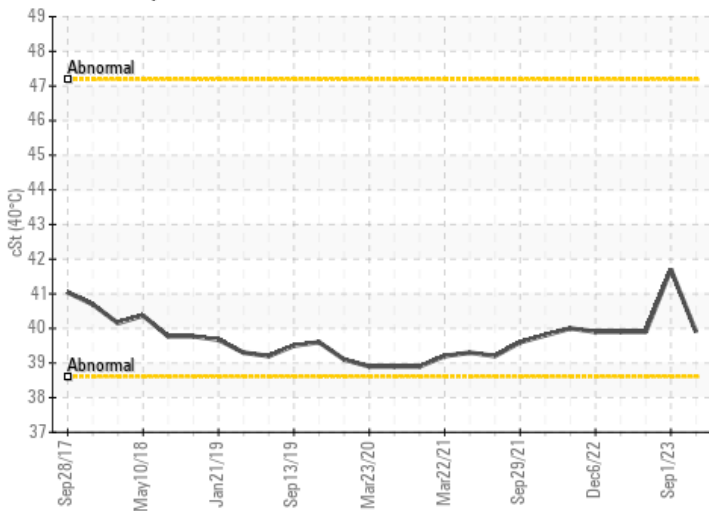
Ferrous Alloys



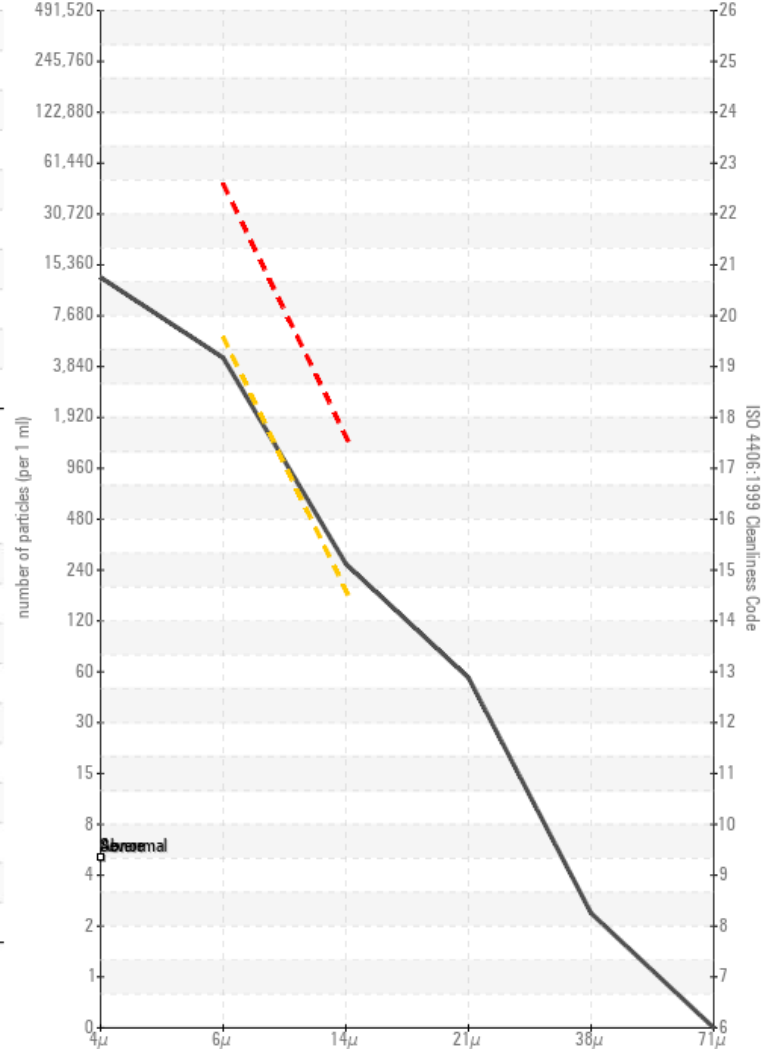
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

