



CONSTRUCTION EQUIPMENT

VOLVO A40G 352025 - HYDRAULIC SYSTEM



Sample No: VCP331588

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP331588	VCP405661	VCP400124	VCP05803915
Sample Date	06 Nov 2023	21 Aug 2023	30 May 2023	06 Mar 2023
Machine Hours	9810	9271	8804	8253
Oil Hours	1557	1021	551	1041
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	ATTENTION	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.7	40.0	40.0	42.2
Acid Number (AN)	mg KOH/g	1.08	1.04	1.44	1.15

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		24645	18141	129878	620
Particles >6µm		7393	3801	30107	166
Particles >14µm		371	161	236	7
ISO 4406:1999 (c)		22/20/16	21/19/15	24/22/15	16/15/10
Silicon	ppm	14	15	14	13
Sodium	ppm	0	3	2	3
Potassium	ppm	2	0	0	0

Diagnosis

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

ADDITIVES

Calcium	ppm	3241	3027	3022	2813
Magnesium	ppm	24	23	26	24
Zinc	ppm	1054	1005	1018	1015
Phosphorus	ppm	880	811	807	768
Barium	ppm	0	0	0	0
Boron	ppm	2	0	<1	1

Depot: SCHGRE
Unique No: 10755444
Signed: Jonathan Hester
Report Date: 28 Nov 2023

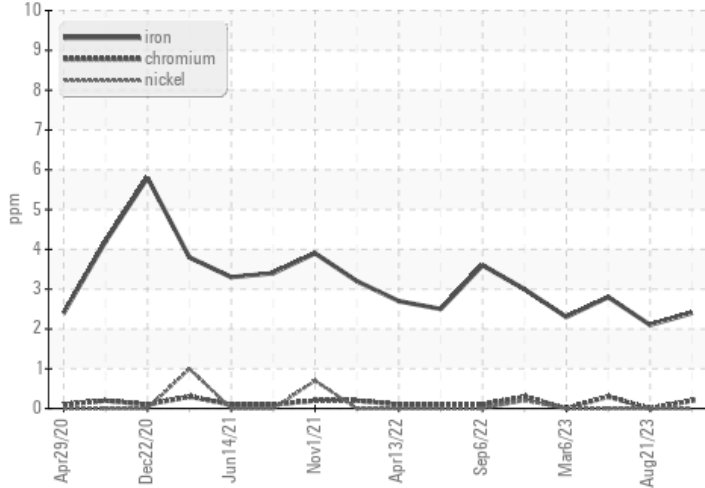


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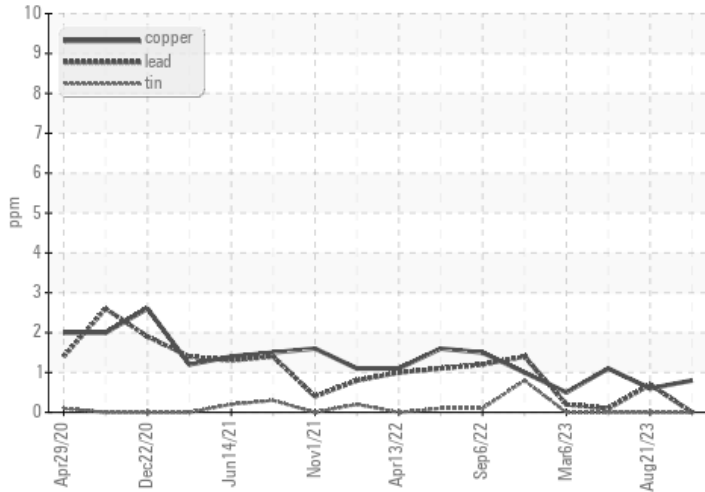


VOLVO GRAPHS

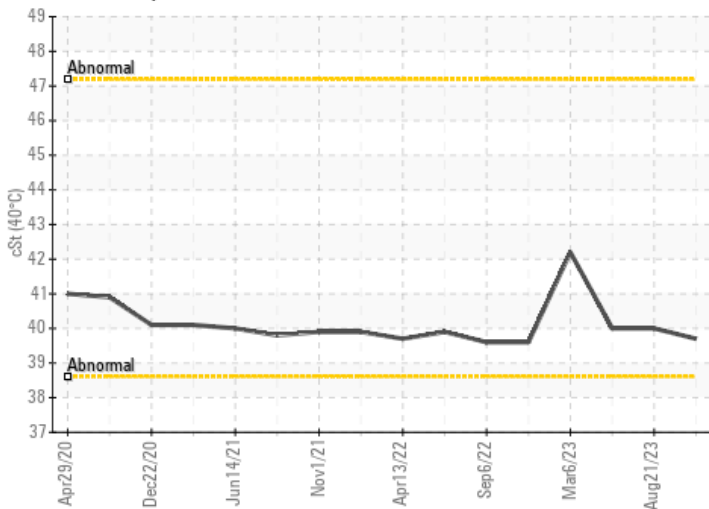
Ferrous Alloys



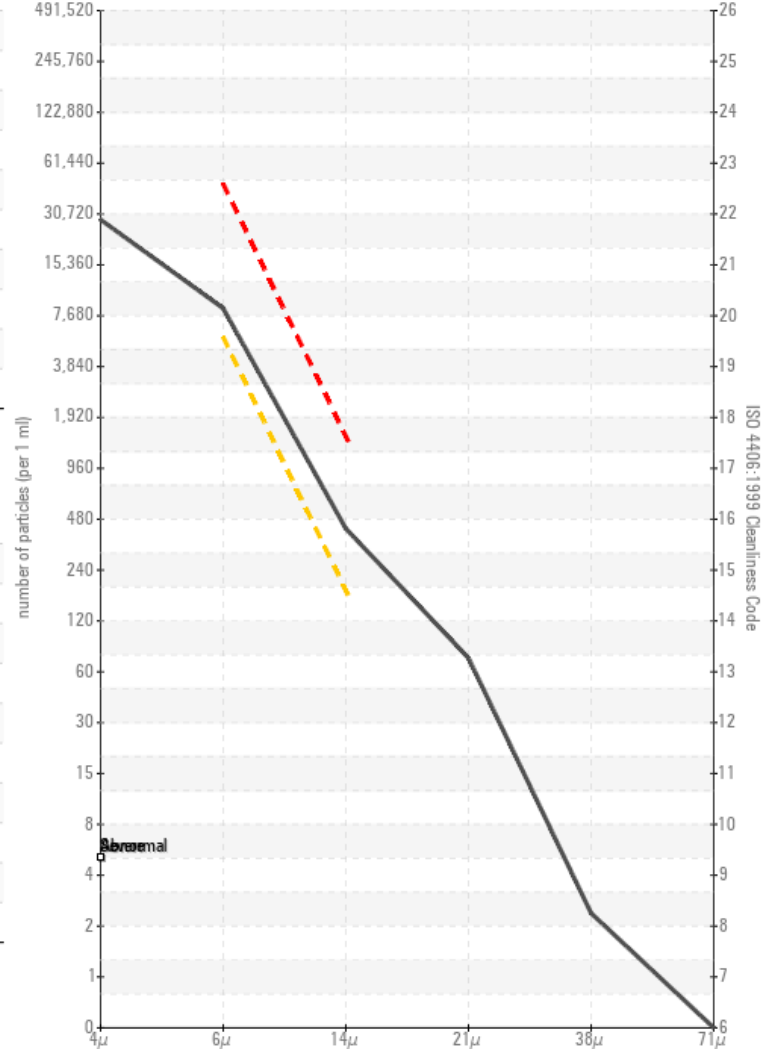
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

