



CONSTRUCTION EQUIPMENT

VOLVO A40G 342252 - HYDRAULIC SYSTEM



Sample No: VCP445740

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP445740	VCP396973	VCP398012	VCP406820
Sample Date	29 Nov 2023	25 Sep 2023	29 Aug 2023	22 Mar 2023
Machine Hours	11431	11035	10867	9960
Oil Hours	396	1952	1784	877
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.1	39.2	39.5	38.7
Acid Number (AN)	mg KOH/g	1.26	1.16	1.39	1.23



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		35544	65891	16569	6626
Particles >6µm		▲ 9249	▲ 22164	■ 4153	■ 1728
Particles >14µm		▲ 350	▲ 952	■ 154	■ 57
ISO 4406:1999 (c)		22/20/16	23/22/17	21/19/14	20/18/13
Silicon	ppm	11	11	12	14
Sodium	ppm	3	3	3	0
Potassium	ppm	0	0	0	2

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



ADDITIVES

Calcium	ppm	3210	3095	3105	3253
Magnesium	ppm	22	25	25	18
Zinc	ppm	1052	1016	1020	1119
Phosphorus	ppm	881	869	856	929
Barium	ppm	0	0	0	0
Boron	ppm	1	2	2	0

Depot: SCHGRE
Unique No: 10780281
Signed: Don Baldrige
Report Date: 13 Dec 2023

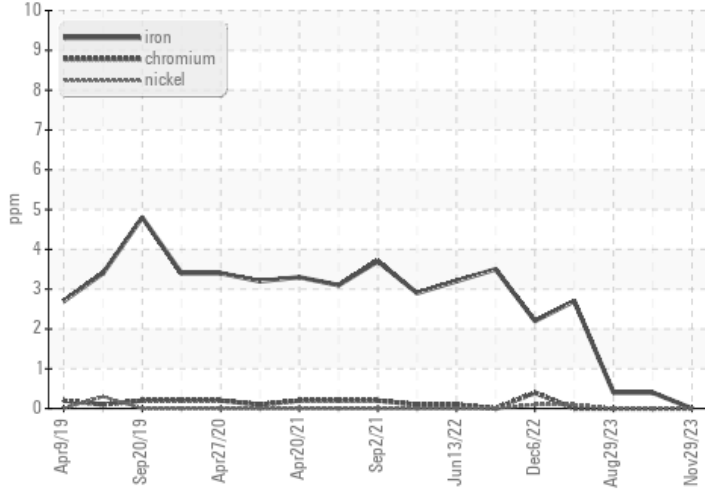


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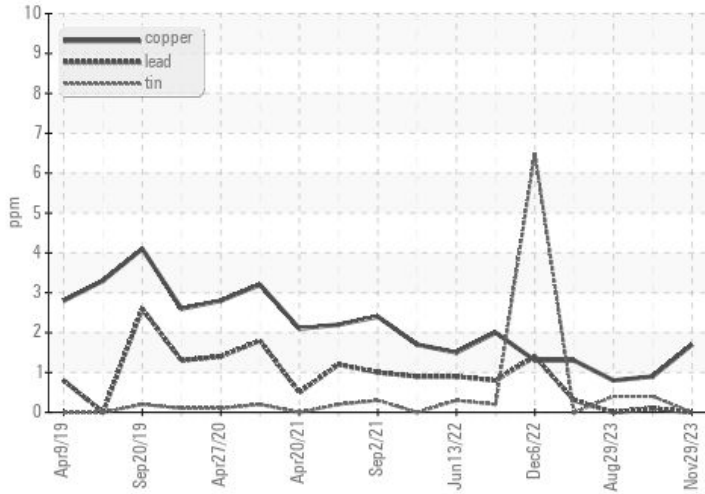


GRAPHS

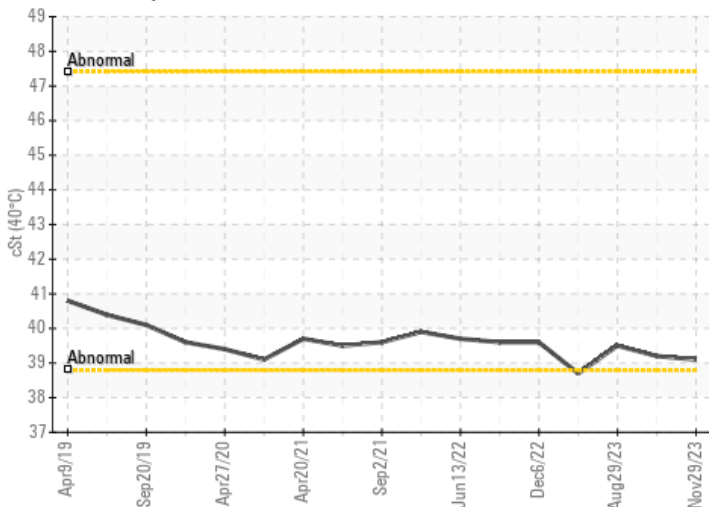
Ferrous Alloys



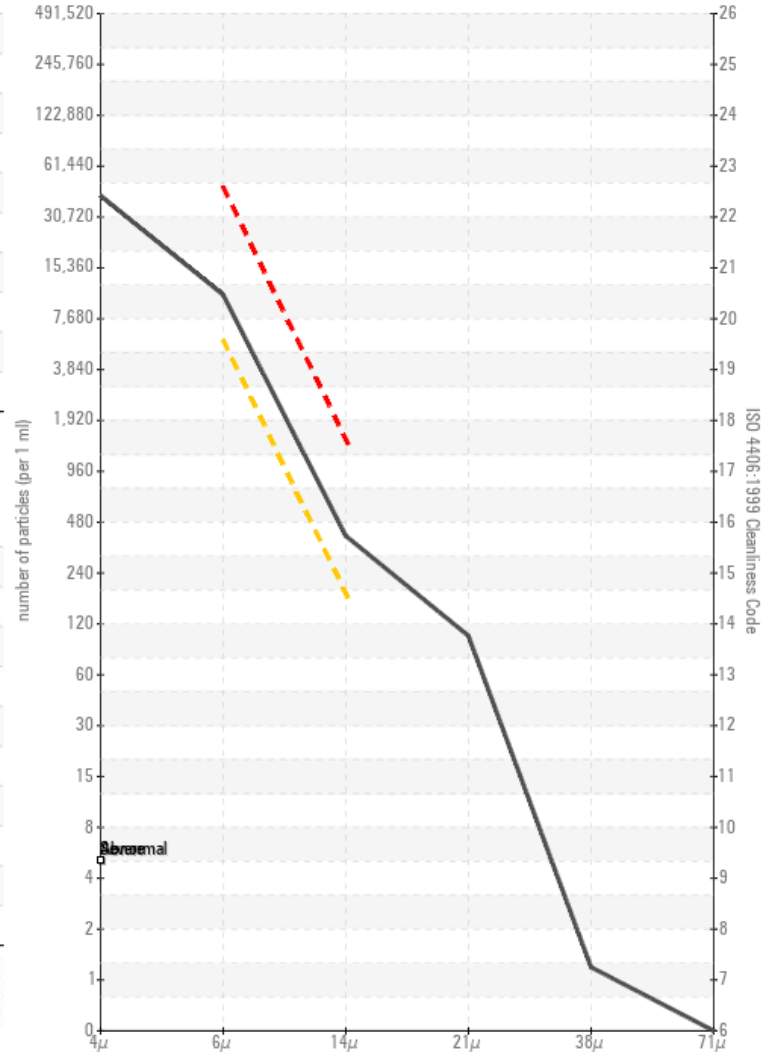
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

