



CONSTRUCTION EQUIPMENT

VOLVO A40G 352026 - HYDRAULIC SYSTEM



Sample No: VCP440665

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP440665	VCP436368	VCP395125	VCP402910
Sample Date	15 Apr 2024	08 Feb 2024	30 Oct 2023	29 Aug 2023
Machine Hours	10378	9959	9458	9029
Oil Hours	920	501	1993	1564
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.3	39.6	40.4	40.5
Acid Number (AN)	mg KOH/g	1.10	1.14	1.09	1.10



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		40615	24065	4336	3832
Particles >6µm		▲ 11053	▲ 6868	■ 1488	■ 698
Particles >14µm		▲ 605	▲ 342	■ 98	■ 33
ISO 4406:1999 (c)		23/21/16	22/20/16	19/18/14	19/17/12
Silicon	ppm	12	14	17	15
Sodium	ppm	3	2	0	4
Potassium	ppm	0	0	2	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 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	<1	3	2
Copper	ppm	0	0	1	<1
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	2	3	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	3	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	<1	<1



ADDITIVES

Calcium	ppm	2851	3043	2993	2893
Magnesium	ppm	23	29	22	20
Zinc	ppm	889	1065	1044	974
Phosphorus	ppm	812	879	833	787
Barium	ppm	0	0	0	0
Boron	ppm	2	4	2	<1

Depot: SCHGRE
Unique No: 11009024
Signed: Don Baldrige
Report Date: 07 May 2024

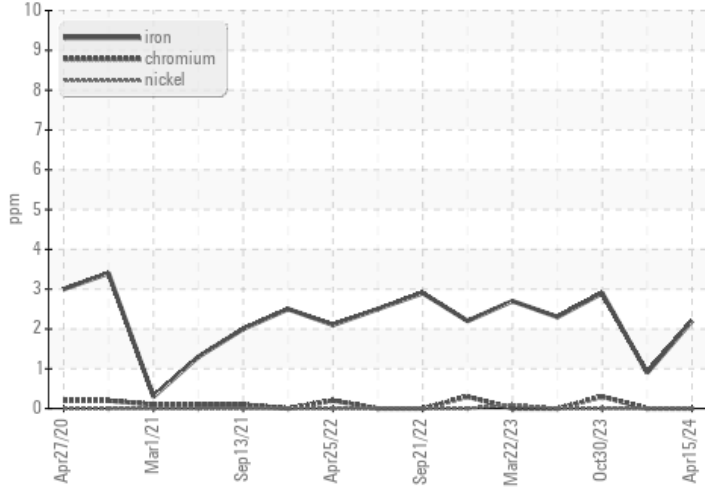


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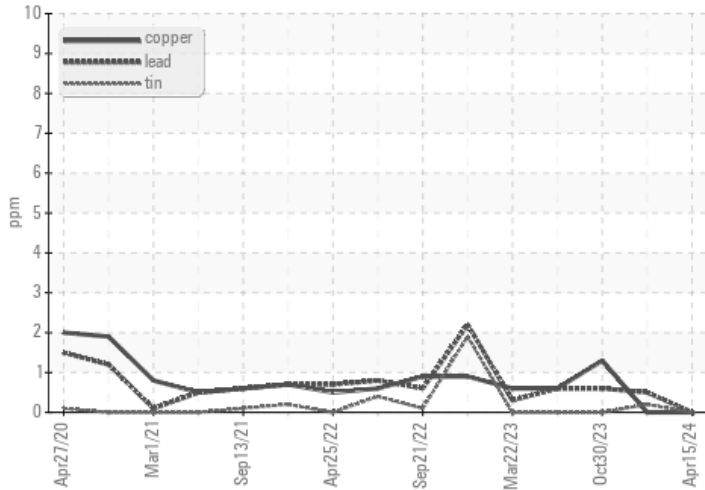


GRAPHS

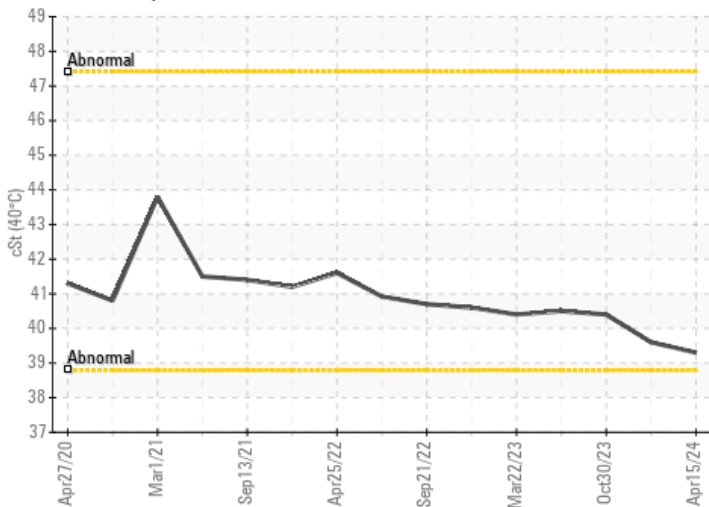
Ferrous Alloys



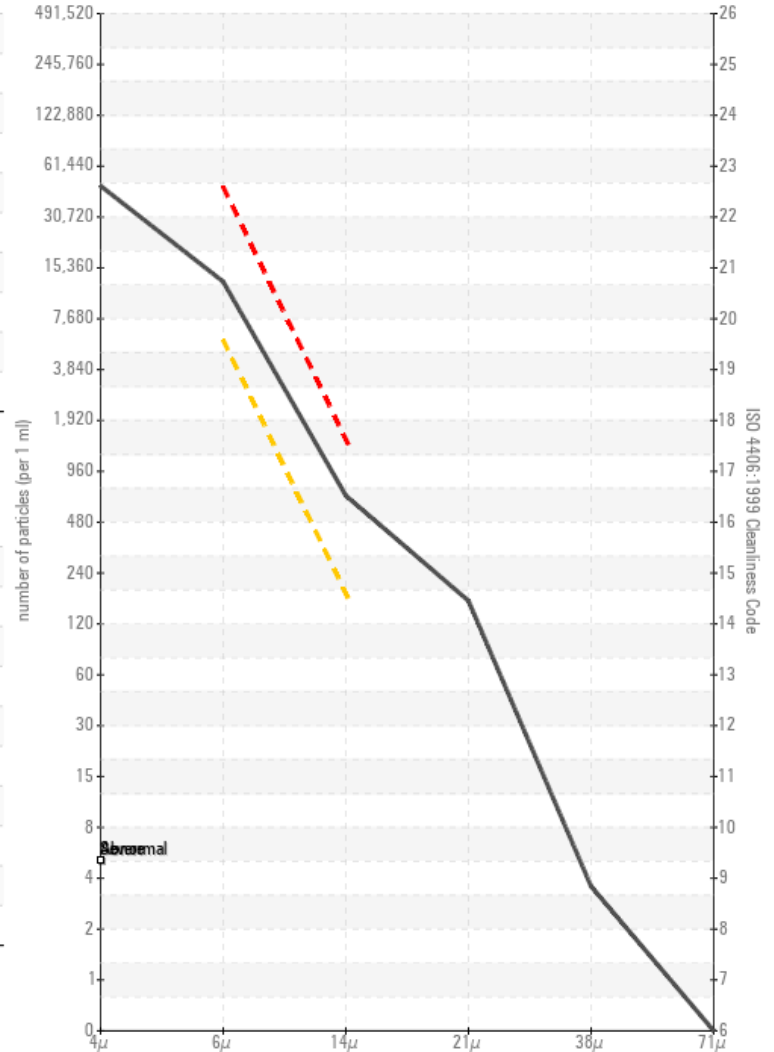
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

