



CONSTRUCTION EQUIPMENT

VOLVO A40G 352341 - HYDRAULIC SYSTEM



Sample No: VCP312556

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP312556	VCP406465	VCP385139	VCP378849
Sample Date	03 Oct 2023	13 Jul 2023	27 Apr 2023	16 Jan 2023
Machine Hours	6606	5997	5474	4807
Oil Hours	609	1980	1457	790
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 40°C	cSt	40.0	51.3	40.9	40.8
Acid Number (AN)	mg KOH/g	0.83	0.64	0.56	0.69



CONTAMINATION

Particles >4µm		20312	2215	17040	9046
Particles >6µm		▲ 5688	545	3762	2102
Particles >14µm		▲ 251	19	126	64
ISO 4406:1999 (c)		22/20/15	18/16/11	21/19/14	20/18/13
Silicon	ppm	11	11	11	10
Sodium	ppm	2	2	4	0
Potassium	ppm	0	0	0	2

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 light amount of silt (particulates < 14 microns in size) 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	6	5	5
Copper	ppm	1	<1	3	2
Lead	ppm	1	<1	0	2
Tin	ppm	<1	<1	0	0
Aluminum	ppm	2	2	<1	0
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2219	1588	1486	1532
Magnesium	ppm	19	20	16	13
Zinc	ppm	825	723	682	711
Phosphorus	ppm	688	578	570	563
Barium	ppm	0	0	0	0
Boron	ppm	<1	0	1	0

Depot: SCHGRE
Unique No: 10700849
Signed: Wes Davis
Report Date: 20 Oct 2023

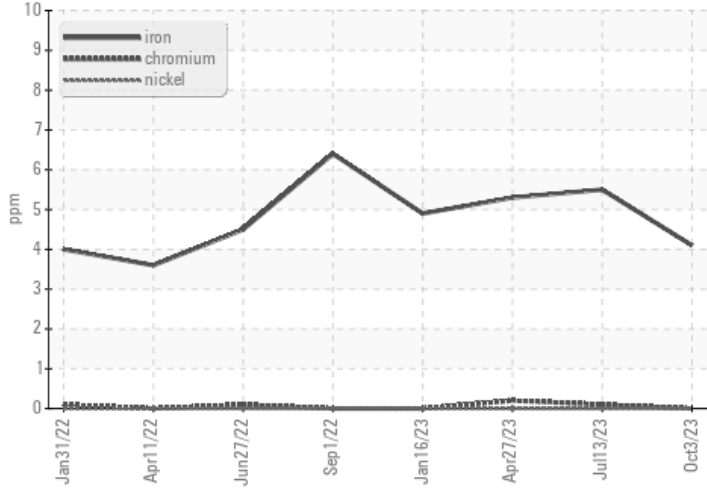


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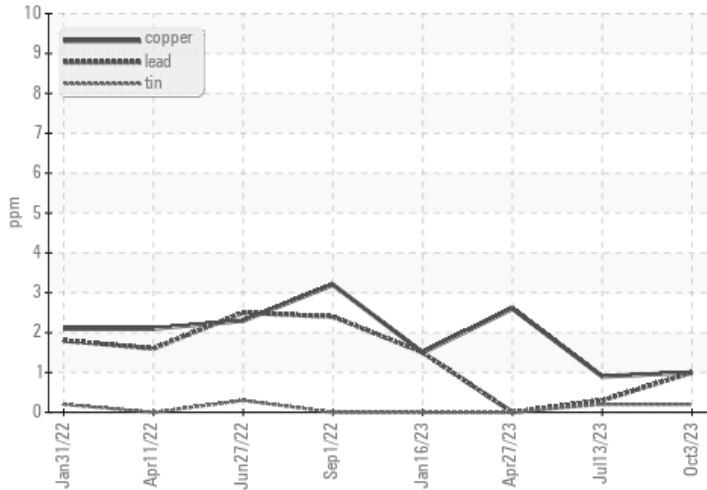


GRAPHS

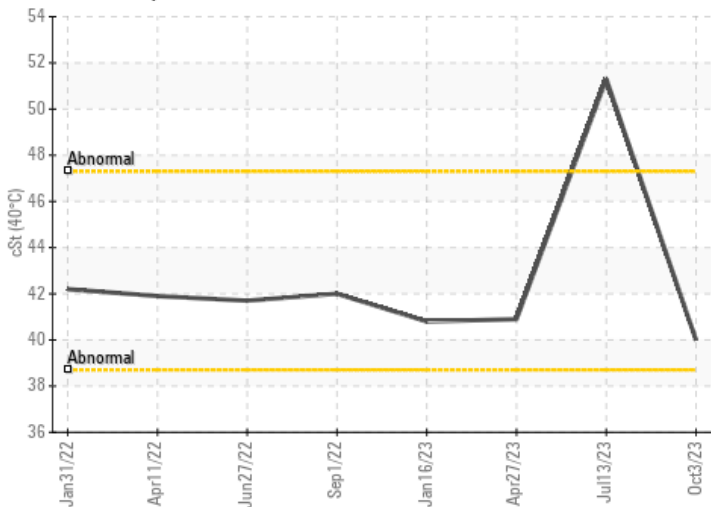
Ferrous Alloys



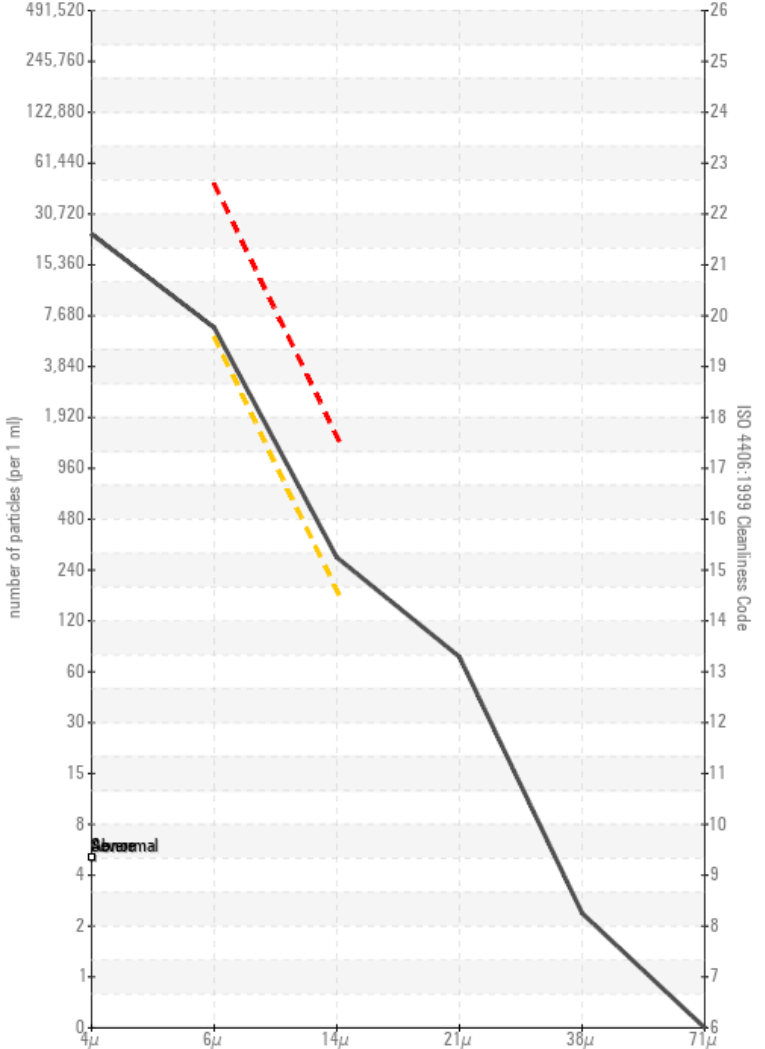
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

