



CONSTRUCTION EQUIPMENT

VOLVO A40G 342608 - HYDRAULIC SYSTEM



Sample No: VCP331575

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP331575	VCP339685	VCP405662	VCP401913
Sample Date	11 Dec 2023	03 Oct 2023	21 Aug 2023	30 May 2023
Machine Hours	11060	10659	10330	9778
Oil Hours	401	2155	1826	1274
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	38.6	39.7	39.4	39.6
Acid Number (AN)	mg KOH/g	1.17	1.27	1.21	1.23



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		15616	2179	4306	119773
Particles >6µm		4799	634	750	46098
Particles >14µm		554	36	46	2201
ISO 4406:1999 (c)		21/19/16	18/16/12	19/17/13	24/23/18
Silicon	ppm	12	14	16	18
Sodium	ppm	2	5	4	3
Potassium	ppm	0	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 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	3	2	3
Copper	ppm	<1	1	<1	1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	3	3	2
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	3281	2986	3072	3088
Magnesium	ppm	21	22	20	24
Zinc	ppm	1066	1030	1034	1057
Phosphorus	ppm	896	852	838	839
Barium	ppm	0	0	0	0
Boron	ppm	2	1	<1	1

Depot: SCHGRE
Unique No: 10806696
Signed: Don Baldrige
Report Date: 28 Dec 2023

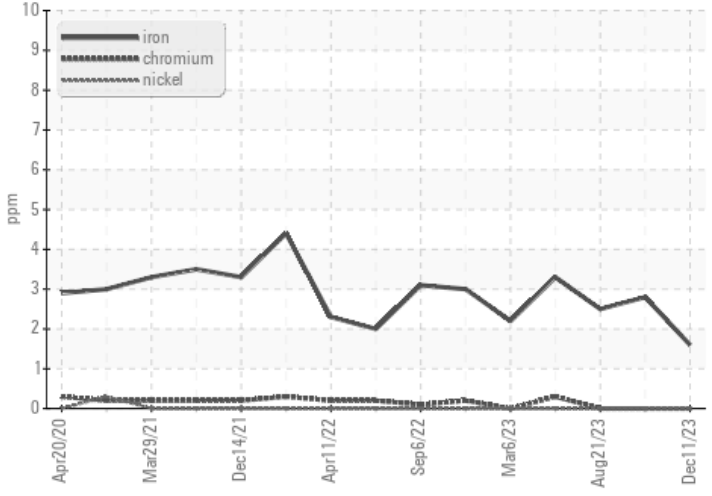


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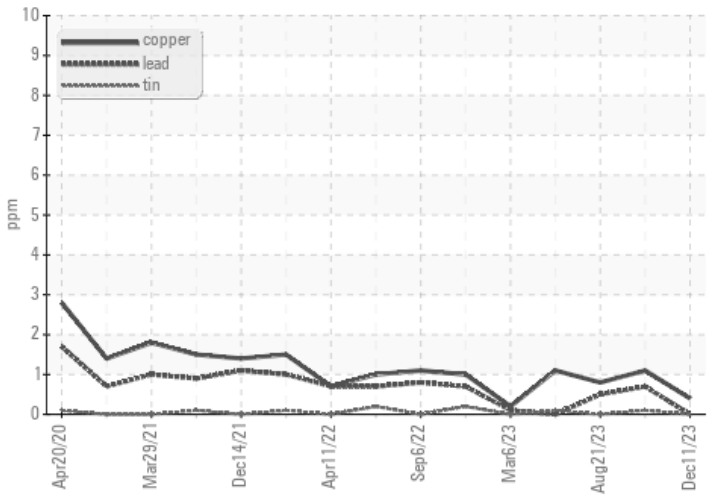


GRAPHS

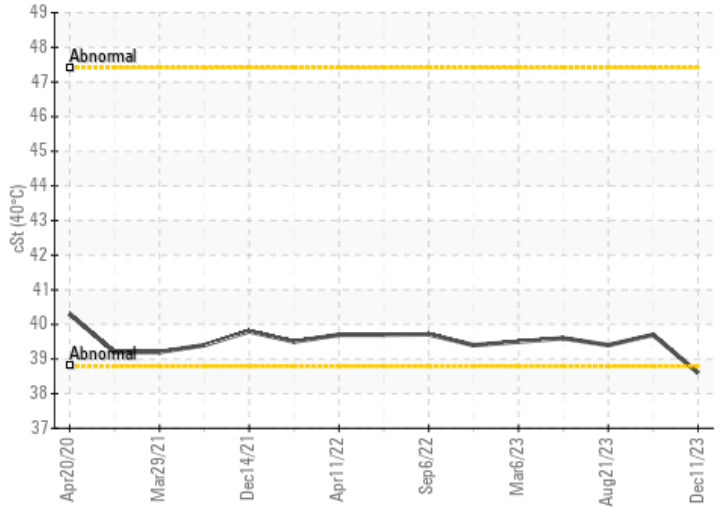
Ferrous Alloys



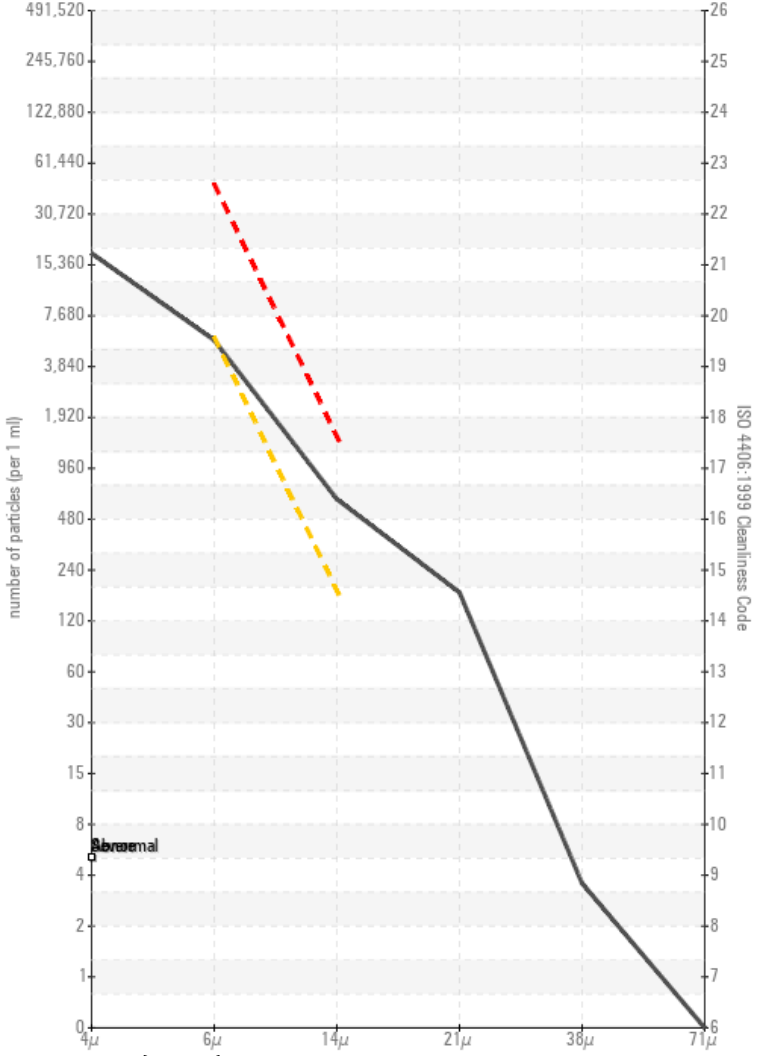
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

