



CONSTRUCTION EQUIPMENT

VOLVO A40G 342608 - HYDRAULIC SYSTEM



Sample No: VCP433635

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP433635	VCP331575	VCP339685	VCP405662
Sample Date	02 Apr 2024	11 Dec 2023	03 Oct 2023	21 Aug 2023
Machine Hours	11716	11060	10659	10330
Oil Hours	1057	401	2155	1826
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	38.5	38.6	39.7	39.4
Acid Number (AN)	mg KOH/g	1.39	1.17	1.27	1.21



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		5993	15616	2179	4306
Particles >6µm		1274	4799	634	750
Particles >14µm		32	554	36	46
ISO 4406:1999 (c)		20/17/12	21/19/16	18/16/12	19/17/13
Silicon	ppm	13	12	14	16
Sodium	ppm	4	2	5	4
Potassium	ppm	0	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	1	2	3	2
Copper	ppm	<1	<1	1	<1
Lead	ppm	<1	0	<1	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	<1	3	3
Chromium	ppm	0	0	0	0
Molybdenum	ppm	1	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	3429	3281	2986	3072
Magnesium	ppm	21	21	22	20
Zinc	ppm	1090	1066	1030	1034
Phosphorus	ppm	951	896	852	838
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	1	<1

Depot: SCHGRE
Unique No: 10989688
Signed: Don Baldrige
Report Date: 23 Apr 2024

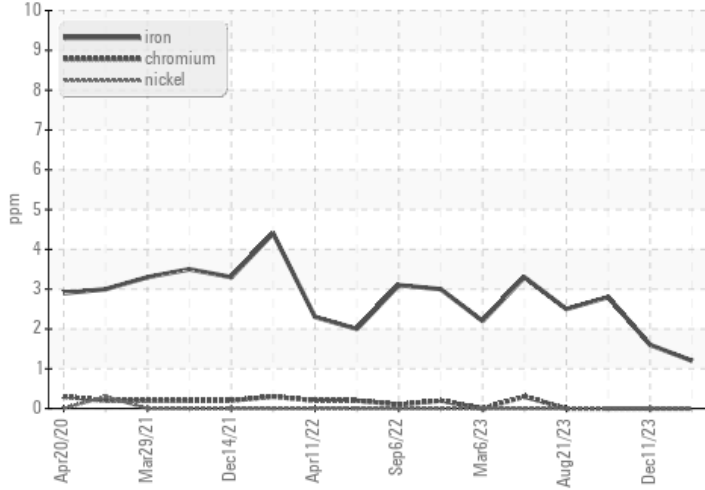


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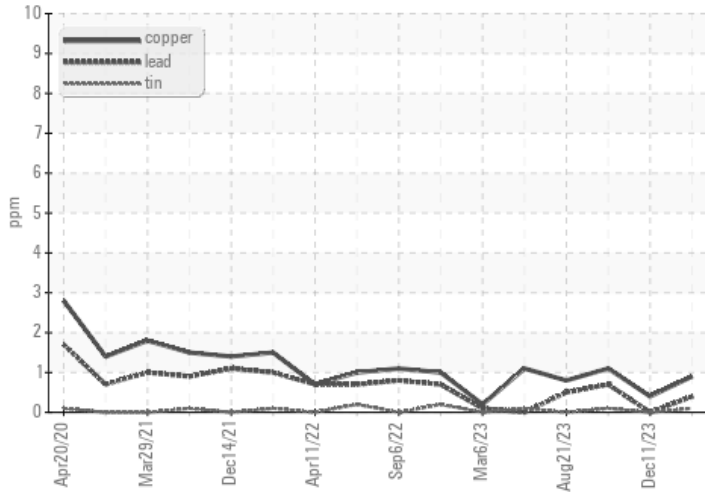


GRAPHS

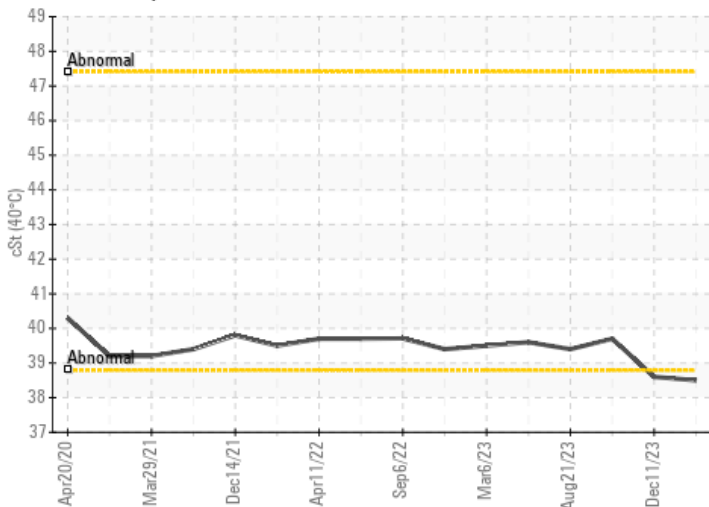
Ferrous Alloys



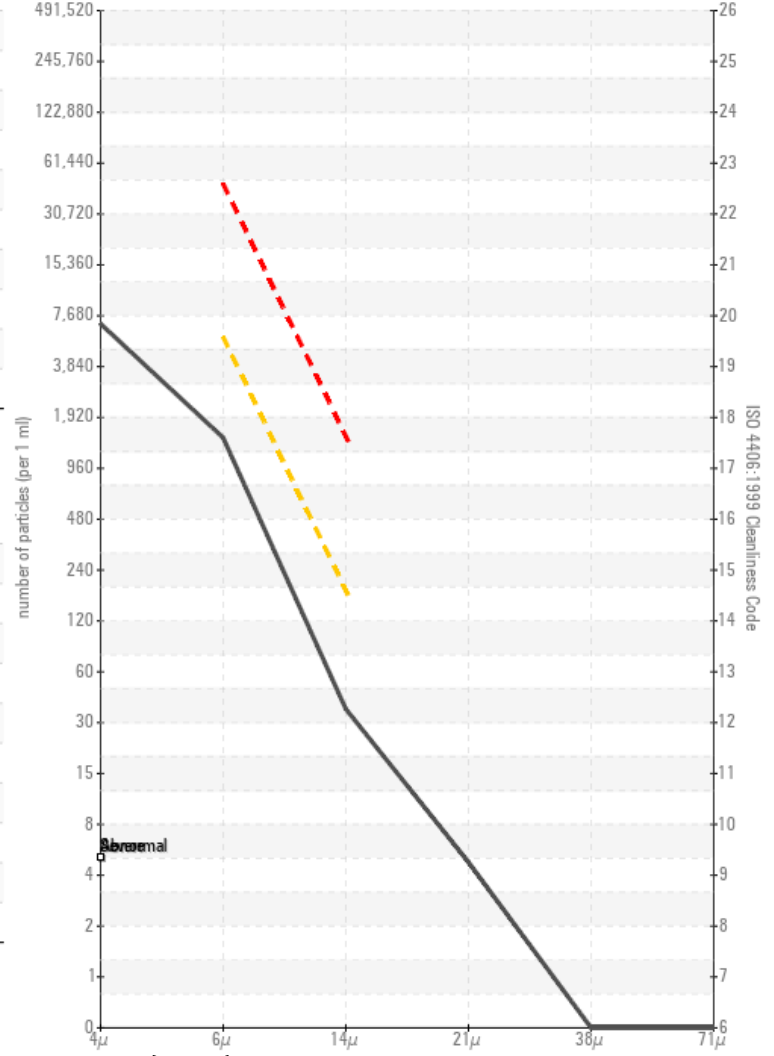
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

