



CONSTRUCTION EQUIPMENT

VOLVO A40G 342608 - HYDRAULIC SYSTEM



Sample No: VCP339685

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP339685	VCP405662	VCP401913	VCP385252
Sample Date	03 Oct 2023	21 Aug 2023	30 May 2023	06 Mar 2023
Machine Hours	10659	10330	9778	9160
Oil Hours	2155	1826	1274	656
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	39.7	39.4	39.6	39.5
Acid Number (AN)	mg KOH/g	1.27	1.21	1.23	1.25



CONTAMINATION

Particles >4µm		2179	4306	119773	25323
Particles >6µm		634	750	46098	6688
Particles >14µm		36	46	2201	246
ISO 4406:1999 (c)		18/16/12	19/17/13	24/23/18	22/20/15
Silicon	ppm	14	16	18	14
Sodium	ppm	5	4	3	2
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	3	2	3	2
Copper	ppm	1	<1	1	<1
Lead	ppm	<1	<1	0	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	3	3	2	3
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	2986	3072	3088	3166
Magnesium	ppm	22	20	24	24
Zinc	ppm	1030	1034	1057	1086
Phosphorus	ppm	852	838	839	824
Barium	ppm	0	0	0	0
Boron	ppm	1	<1	1	1

Depot: SCHGRE
Unique No: 10700848
Signed: Don Baldrige
Report Date: 20 Oct 2023

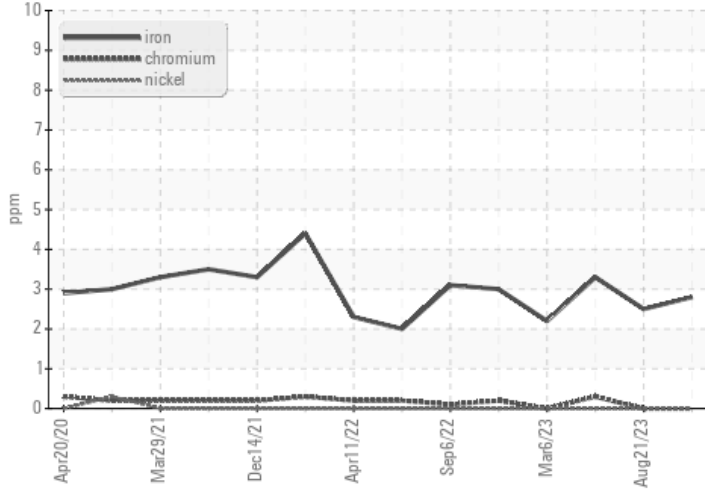


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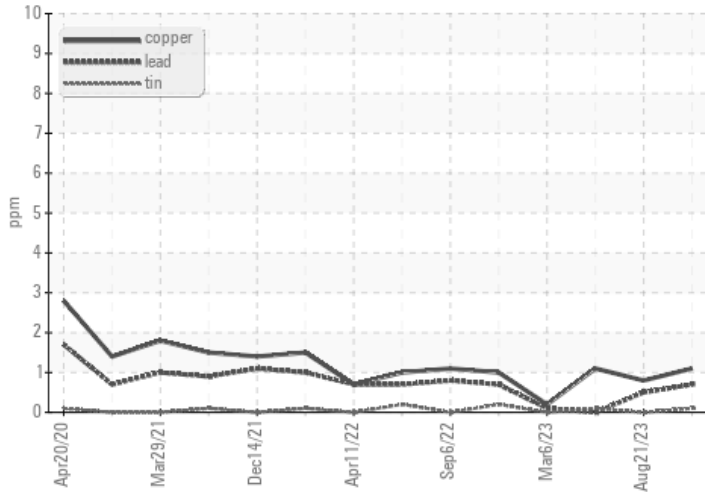


VOLVO GRAPHS

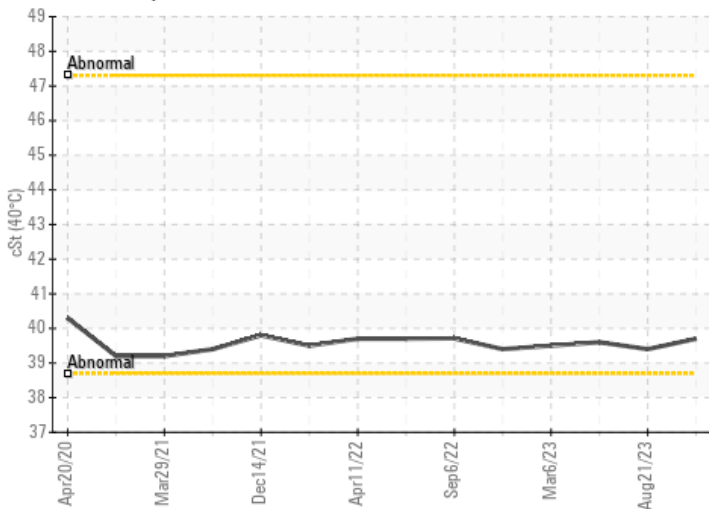
Ferrous Alloys



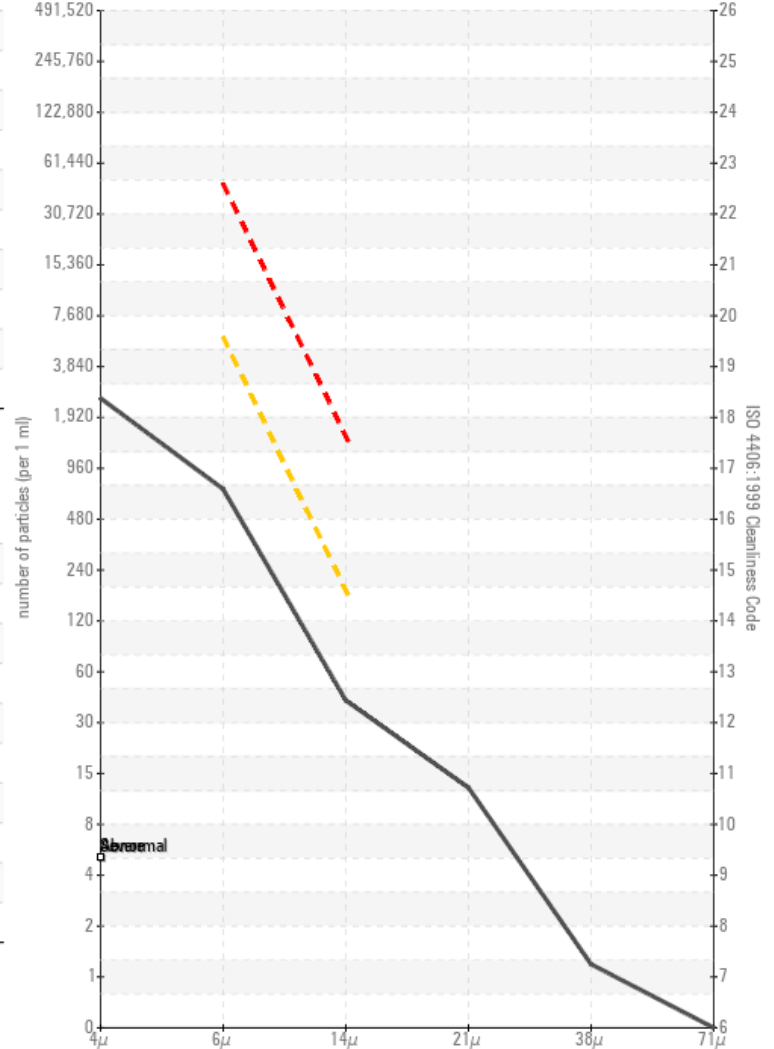
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

