



CONSTRUCTION EQUIPMENT

VOLVO A40G 352566 - HYDRAULIC SYSTEM



Sample No: VCP404835

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP404835	VCP385226	VCP362767	VCP359508
Sample Date	21 Aug 2023	30 May 2023	06 Mar 2023	09 Nov 2022
Machine Hours	4239	3634	3021	2366
Oil Hours	1873	1268	655	2000
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	41.6	41.7	41.9	43.0
Acid Number (AN)	mg KOH/g	0.77	0.75	0.86	0.49

CONTAMINATION

Particles >4µm		3478	---	34215	14750
Particles >6µm		362	---	▲ 9758	2168
Particles >14µm		16	---	▲ 405	84
ISO 4406:1999 (c)		19/16/11	---	22/20/16	21/18/14
Silicon	ppm	13	15	12	7
Sodium	ppm	3	2	1	1
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	5	5	4	5
Copper	ppm	1	2	<1	2
Lead	ppm	1	<1	<1	<1
Tin	ppm	0	0	0	0
Aluminum	ppm	2	1	2	<1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	2	2	1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1837	1781	1834	610
Magnesium	ppm	11	15	14	5
Zinc	ppm	744	745	773	534
Phosphorus	ppm	580	559	580	430
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	<1

Depot: SCHGRE
Unique No: 10634143
Signed: Don Baldrige
Report Date: 08 Sep 2023

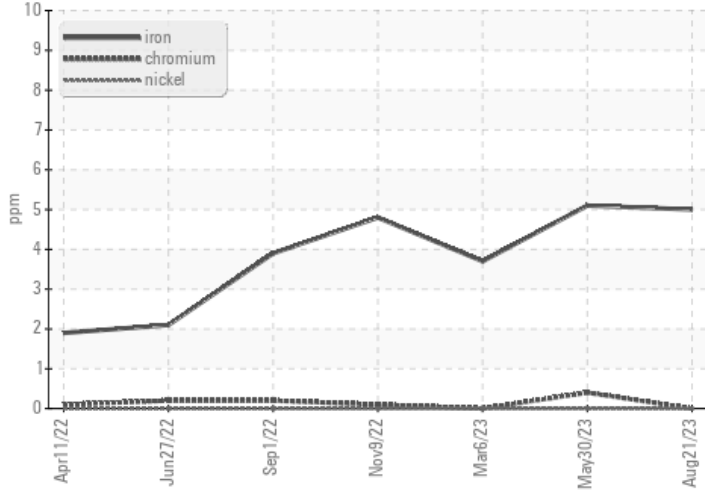


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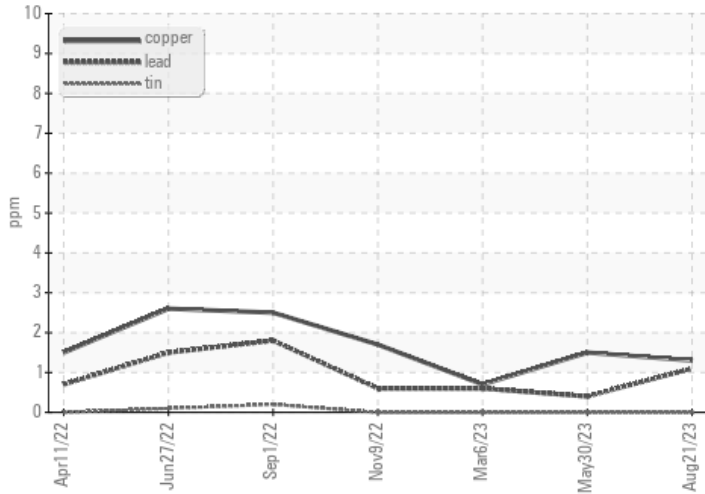


VOLVO GRAPHS

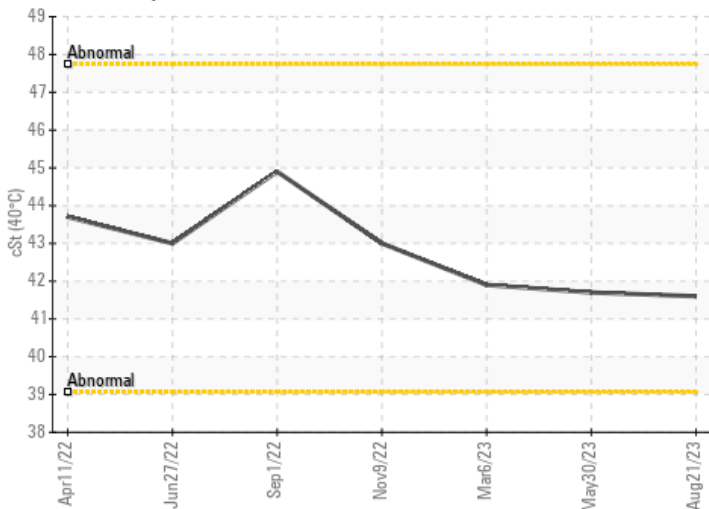
Ferrous Alloys



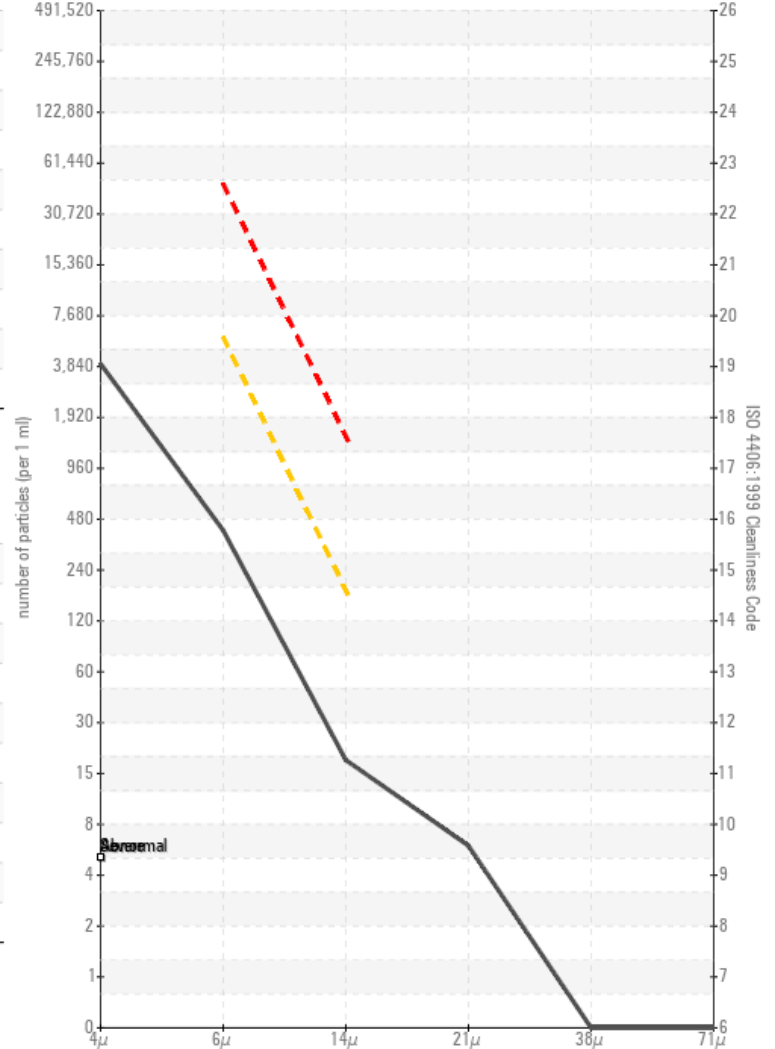
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

