



CONSTRUCTION EQUIPMENT

VOLVO A40G 341476 - HYDRAULIC SYSTEM



Sample No: VCP435442

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP435442	VCP416756	VCP405735	VCP378446
Sample Date	07 May 2024	06 Feb 2024	24 Oct 2023	12 Sep 2023
Machine Hours	18264	17630	17166	16932
Oil Hours	1098	464	1871	1637
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.8	39.9	40.7	41.7
Acid Number (AN)	mg KOH/g	1.11	1.21	1.07	1.14



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9239	2003	1986	25671
Particles >6µm		1423	222	296	3227
Particles >14µm		34	11	7	96
ISO 4406:1999 (c)		20/18/12	18/15/11	18/15/10	22/19/14
Silicon	ppm	17	16	15	15
Sodium	ppm	6	6	4	5
Potassium	ppm	2	0	<1	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The system cleanliness is acceptable for your target ISO 4406 cleanliness code. The system and fluid cleanliness is acceptable. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



WEAR METALS

Iron	ppm	4	2	3	3
Copper	ppm	3	3	2	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	0	<1	0
Aluminum	ppm	4	4	4	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	2	2	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	<1	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3103	2881	3017	2903
Magnesium	ppm	32	22	31	32
Zinc	ppm	1164	976	1140	1109
Phosphorus	ppm	972	866	931	886
Barium	ppm	<1	0	0	0
Boron	ppm	1	2	3	<1

Depot: SCHGRE
Unique No: 11032590
Signed: Jonathan Hester
Report Date: 20 May 2024

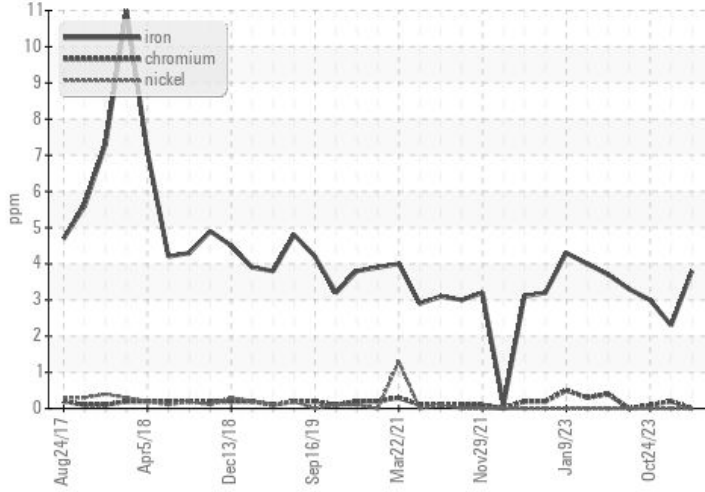


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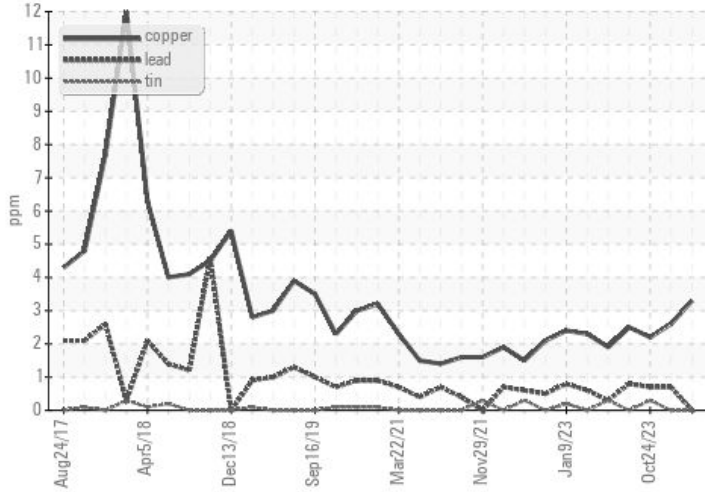


VOLVO GRAPHS

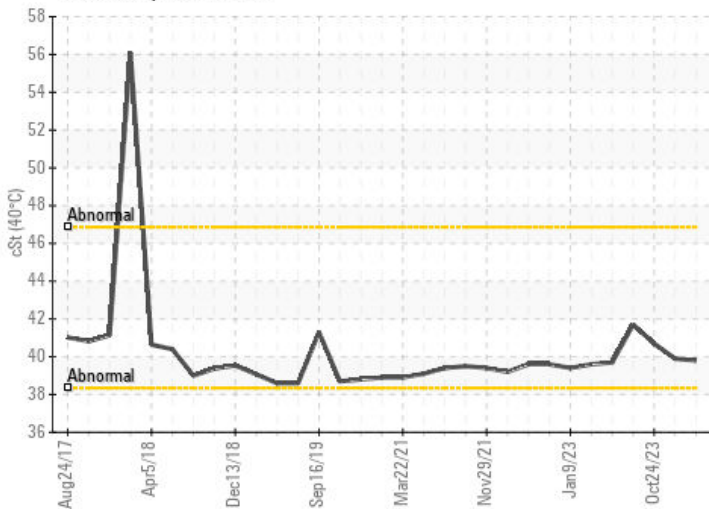
Ferrous Alloys



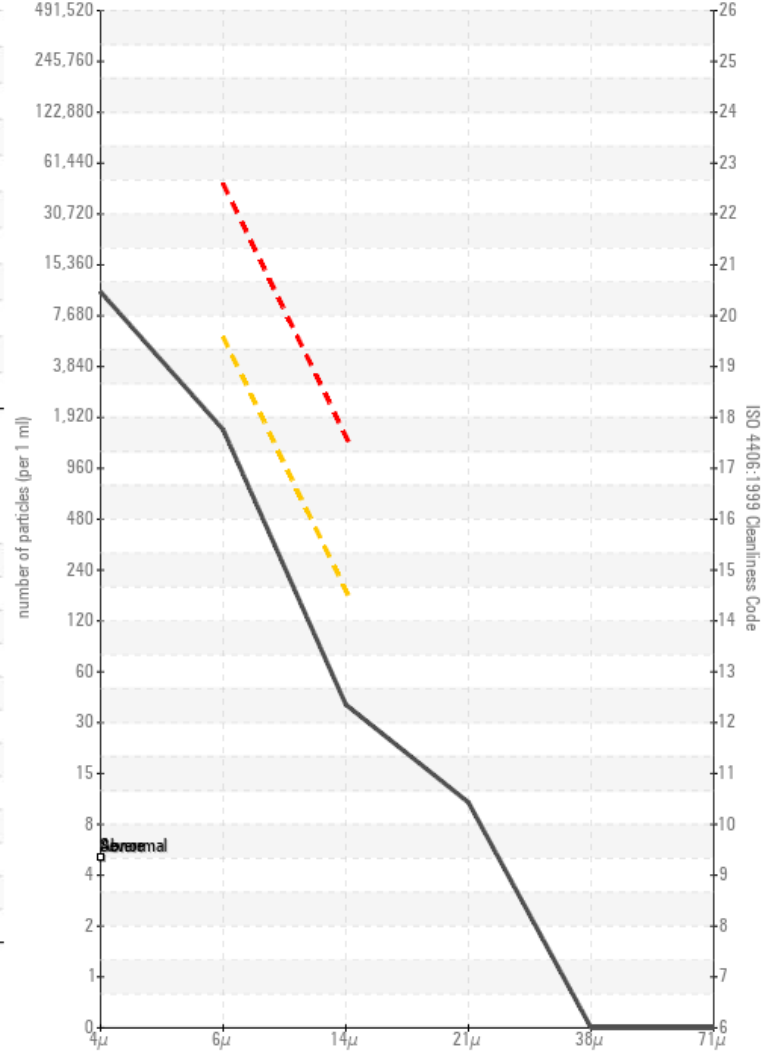
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

