



CONSTRUCTION EQUIPMENT

VOLVO A40G 342610 - HYDRAULIC SYSTEM



Sample No: VCP406471

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP406471	VCP398292	VCP379373	VCP362800
Sample Date	13 Jul 2023	27 Apr 2023	16 Jan 2023	12 Oct 2022
Machine Hours	9910	9441	8766	8249
Oil Hours	1144	675	1875	1358
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.64	39.8	39.8	39.8
Acid Number (AN)	mg KOH/g	1.16	1.02	1.20	1.09



CONTAMINATION

Particles >4µm		13398	16314	20067	13363
Particles >6µm		3949	3765	▲ 5404	2614
Particles >14µm		142	114	▲ 239	59
ISO 4406:1999 (c)		21/19/14	21/19/14	22/20/15	21/19/13
Silicon	ppm	14	15	15	15
Sodium	ppm	3	4	0	3
Potassium	ppm	0	0	2	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	4	3	2
Copper	ppm	<1	2	1	1
Lead	ppm	0	0	<1	4
Tin	ppm	0	0	0	<1
Aluminum	ppm	3	2	1	2
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	3	3	3	4
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	3058	2919	3069	3188
Magnesium	ppm	31	30	26	28
Zinc	ppm	1057	1018	1049	1132
Phosphorus	ppm	849	822	862	885
Barium	ppm	0	0	0	0
Boron	ppm	2	3	1	0

Depot: SCHGRE
Unique No: 10586384
Signed: Doug Bogart
Report Date: 08 Aug 2023

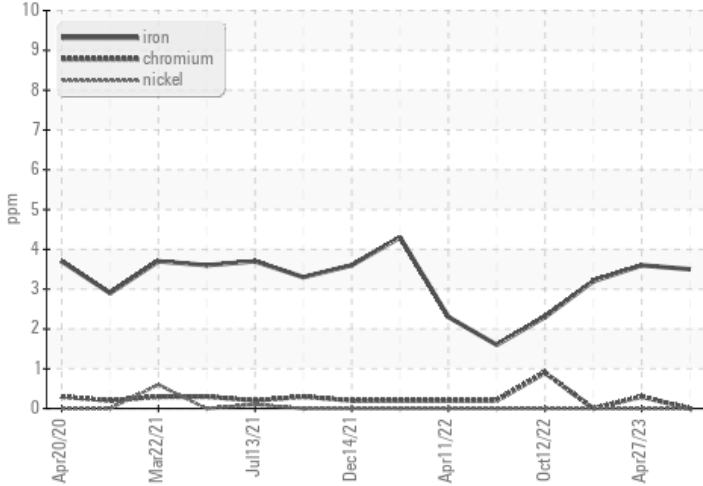


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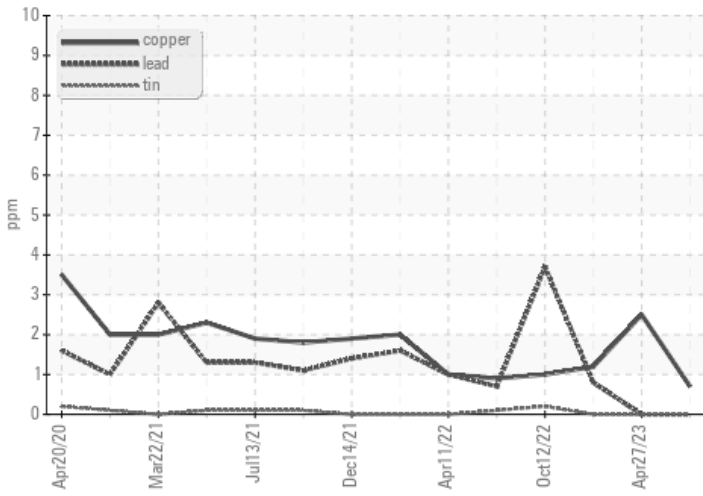


GRAPHS

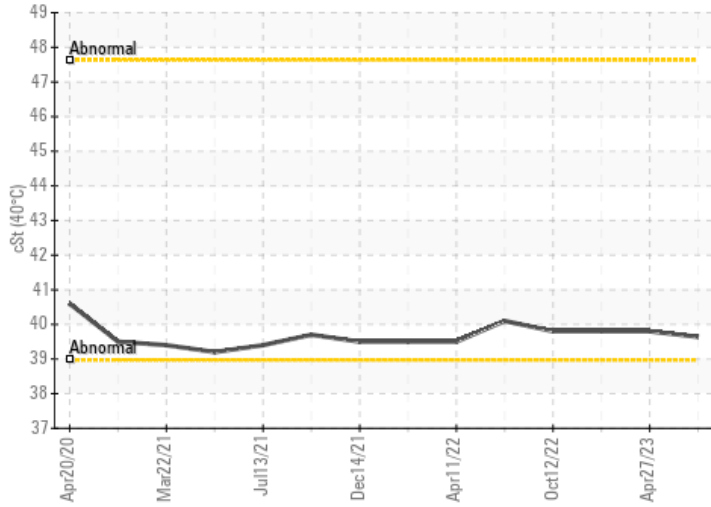
Ferrous Alloys



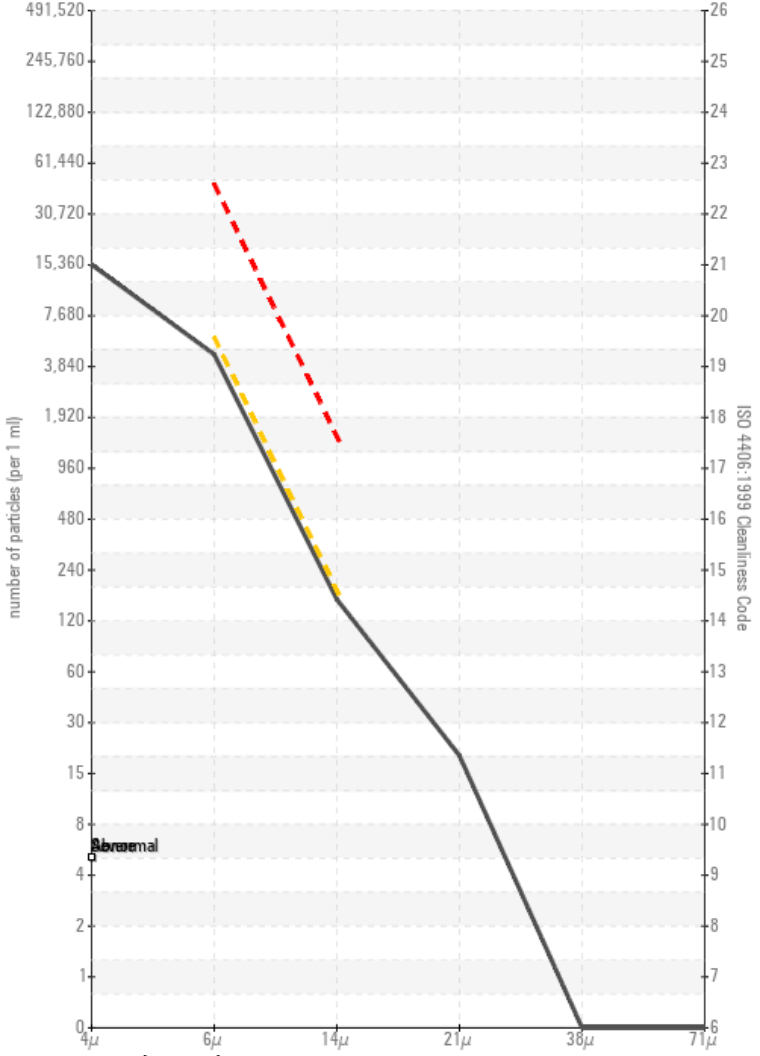
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

