



CONSTRUCTION EQUIPMENT

VOLVO A40G 352341 - HYDRAULIC SYSTEM



Sample No: VCP406465
Oil Type: MOBIL 10W
Job No:



SAMPLE INFORMATION

Sample Number	VCP406465	VCP385139	VCP378849	VCP377241
Sample Date	13 Jul 2023	27 Apr 2023	16 Jan 2023	01 Sep 2022
Machine Hours	5997	5474	4807	4017
Oil Hours	1980	1457	790	2152
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	51.3	40.9	40.8	42.0
Acid Number (AN)	mg KOH/g	0.64	0.56	0.69	0.40



CONTAMINATION

Particles >4µm		2215	17040	9046	18154
Particles >6µm		545	3762	2102	3029
Particles >14µm		19	126	64	102
ISO 4406:1999 (c)		18/16/11	21/19/14	20/18/13	21/19/14
Silicon	ppm	11	11	10	5
Sodium	ppm	2	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	6	5	5	6
Copper	ppm	<1	3	2	3
Lead	ppm	<1	0	2	2
Tin	ppm	<1	0	0	0
Aluminum	ppm	2	<1	0	1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	2	2	2	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1588	1486	1532	58
Magnesium	ppm	20	16	13	1
Zinc	ppm	723	682	711	415
Phosphorus	ppm	578	570	563	327
Barium	ppm	0	0	0	<1
Boron	ppm	0	1	0	0

Depot: SCHGRE
Unique No: 10586383
Signed: Jonathan Hester
Report Date: 04 Aug 2023

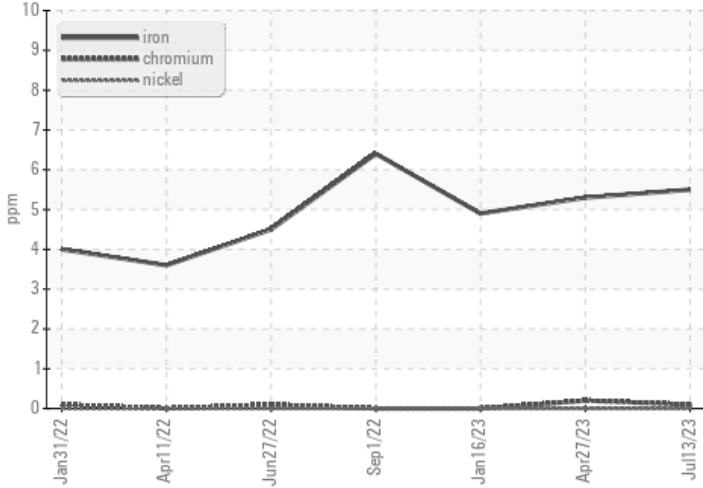


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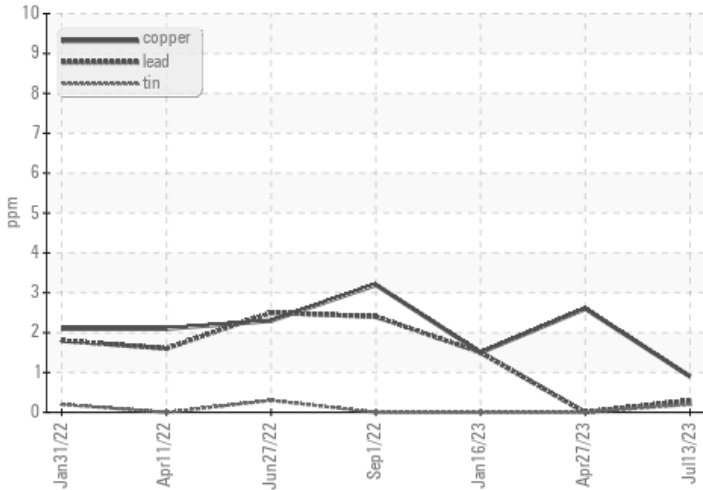


GRAPHS

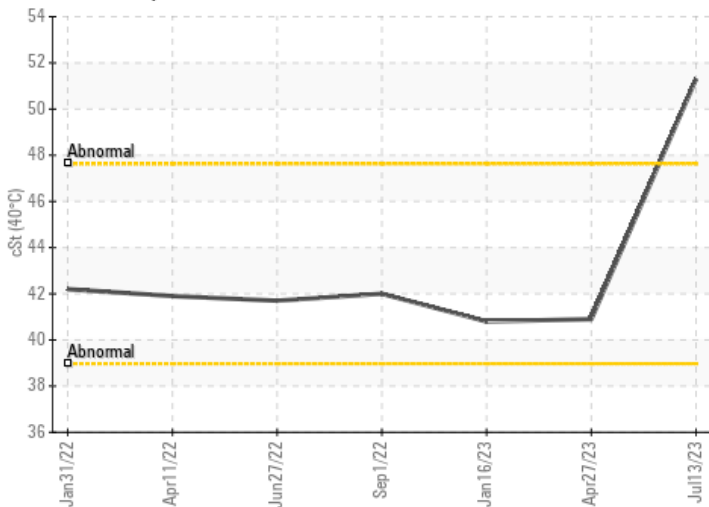
Ferrous Alloys



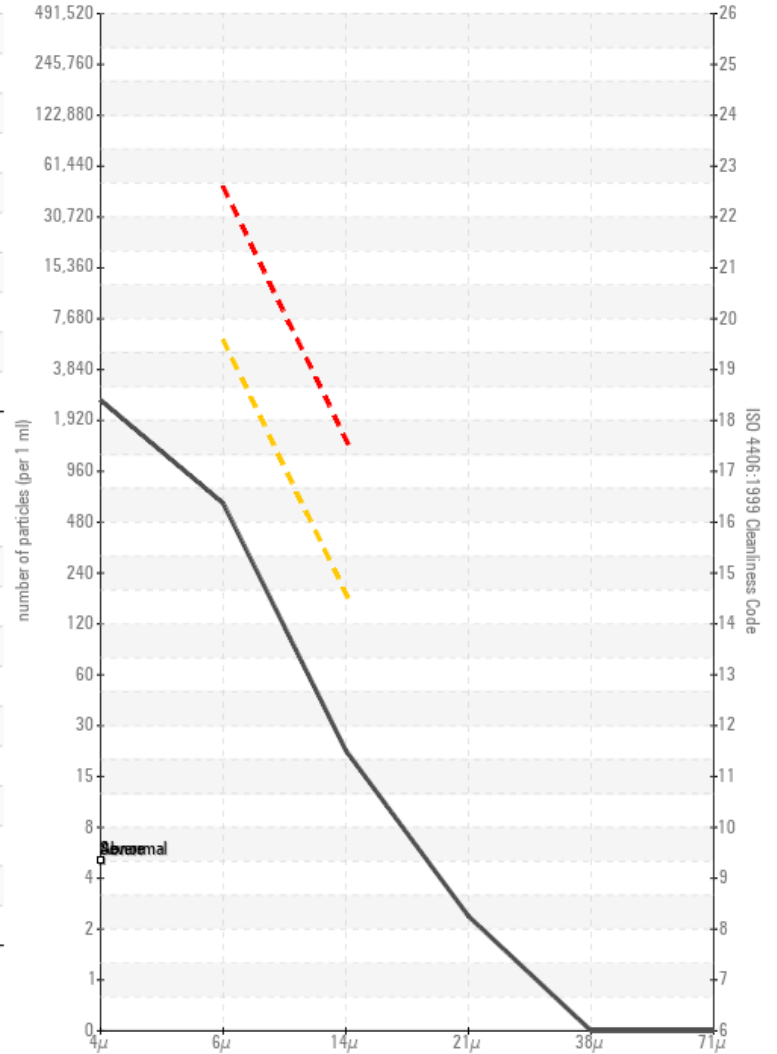
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

