



CONSTRUCTION EQUIPMENT

VOLVO A40G 342253 - HYDRAULIC SYSTEM



Sample No: VCP402957

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP402957	VCP404899	VCP390568	VCP385083
Sample Date	19 Jul 2023	02 May 2023	13 Feb 2023	06 Dec 2022
Machine Hours	9967	9484	9003	8711
Oil Hours	921	438	1932	1640
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	46.2	40.5	39.8	39.9
Acid Number (AN)	mg KOH/g	1.11	1.05	1.04	1.08



CONTAMINATION

Particles >4µm		32414	26440	22470	15718
Particles >6µm		9678	6849	9840	4952
Particles >14µm		314	256	846	196
ISO 4406:1999 (c)		22/20/15	22/20/15	22/20/17	21/19/15
Silicon	ppm	13	15	13	17
Sodium	ppm	<1	3	5	4
Potassium	ppm	0	0	0	0

Diagnosis

The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present 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	3	3	3
Copper	ppm	<1	2	2	2
Lead	ppm	0	0	0	2
Tin	ppm	<1	0	0	7
Aluminum	ppm	2	<1	2	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	3	3	2	4
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3325	3144	2501	3074
Magnesium	ppm	33	30	20	28
Zinc	ppm	1073	1033	869	1073
Phosphorus	ppm	865	836	725	920
Barium	ppm	0	0	0	0
Boron	ppm	2	4	0	3

Depot: SCHGRE
Unique No: 10586382
Signed: Jonathan Hester
Report Date: 04 Aug 2023

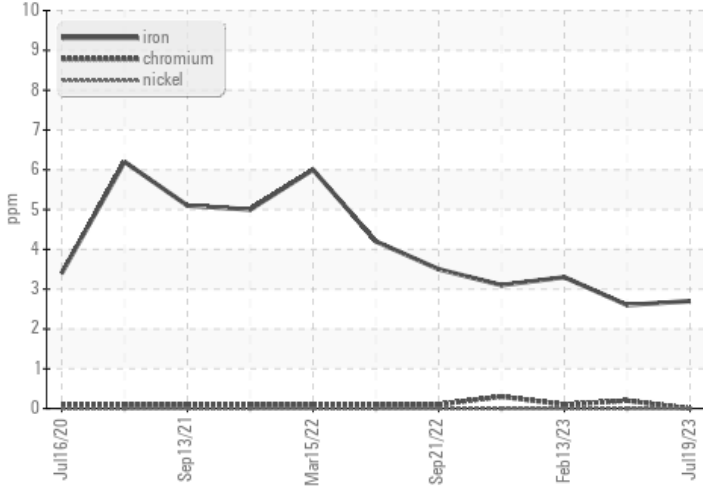


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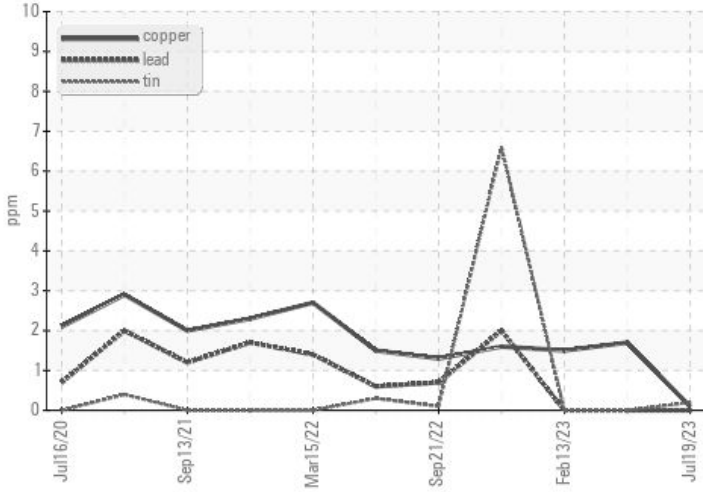


GRAPHS

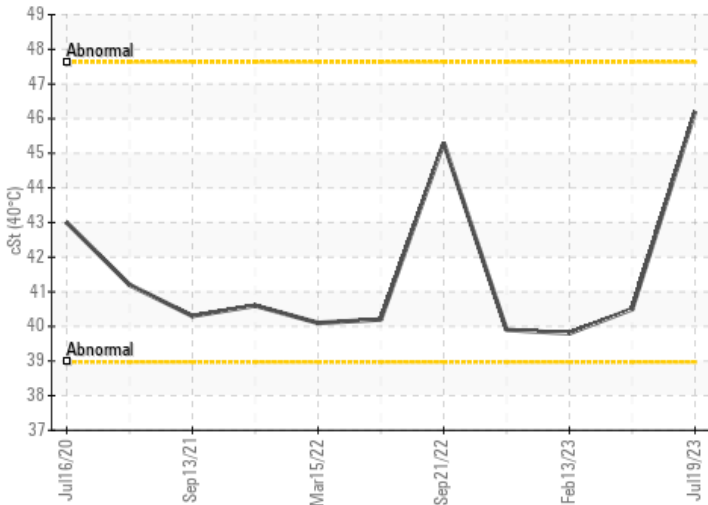
Ferrous Alloys



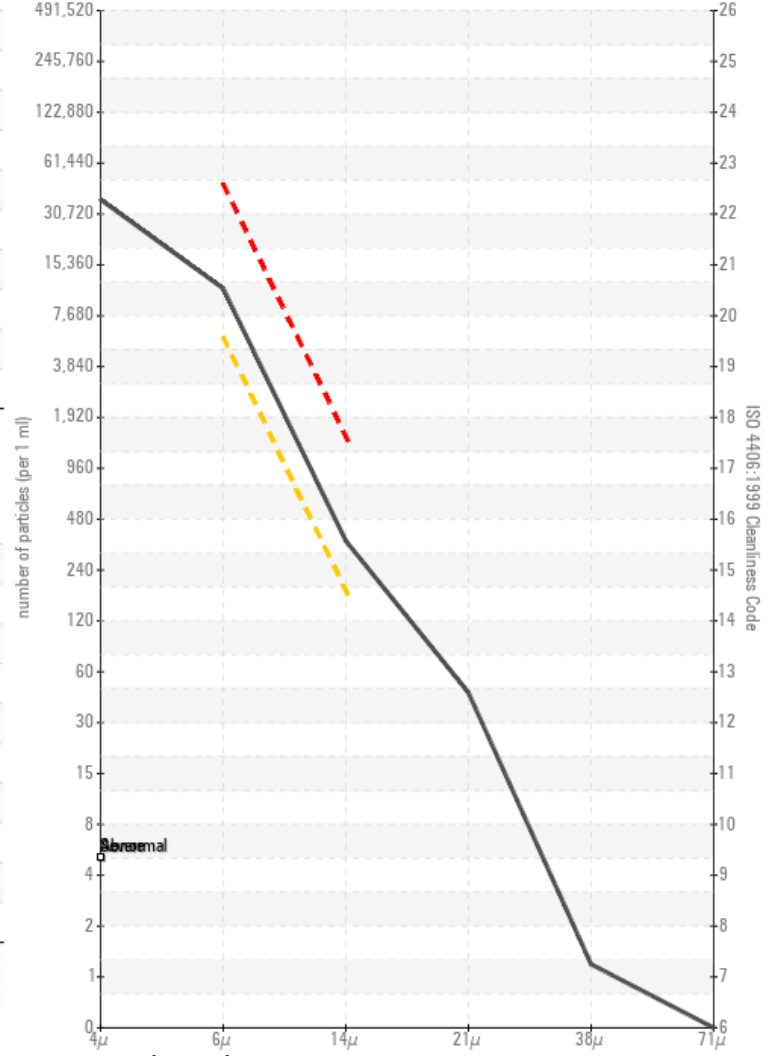
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

