



CONSTRUCTION EQUIPMENT

VOLVO A40G 341127 - HYDRAULIC SYSTEM



Sample No: VCP404576

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP404576	VCP385138	VCP359596	VCP337444
Sample Date	24 Oct 2023	27 Apr 2023	16 Jan 2023	06 Sep 2022
Machine Hours	13756	12838	12357	11781
Oil Hours	1399	481	2078	1502
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ABNORMAL	ATTENTION	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	39.4	39.6	39.4	39.3
Acid Number (AN)	mg KOH/g	1.828	1.04	1.23	1.28



CONTAMINATION

Particles >4µm		21397	24404	1484	62947
Particles >6µm		6810	6941	353	9213
Particles >14µm		536	245	11	312
ISO 4406:1999 (c)		22/20/16	22/20/15	18/16/11	23/20/15
Silicon	ppm	20	15	13	18
Sodium	ppm	2	3	0	<1
Potassium	ppm	<1	0	2	2

Diagnosis

No corrective action is recommended at this time. 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 high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is acceptable for the time in service.



WEAR METALS

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



ADDITIVES

Calcium	ppm	2979	3066	3008	3005
Magnesium	ppm	24	24	20	20
Zinc	ppm	1081	1071	1103	1099
Phosphorus	ppm	874	878	923	913
Barium	ppm	0	0	0	2
Boron	ppm	2	2	<1	2

Depot: SCHGRE
Unique No: 10723868
Signed: Don Baldrige
Report Date: 03 Nov 2023

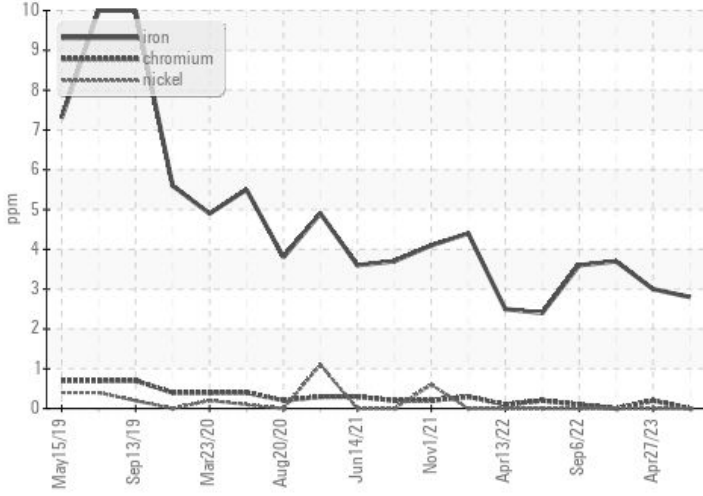


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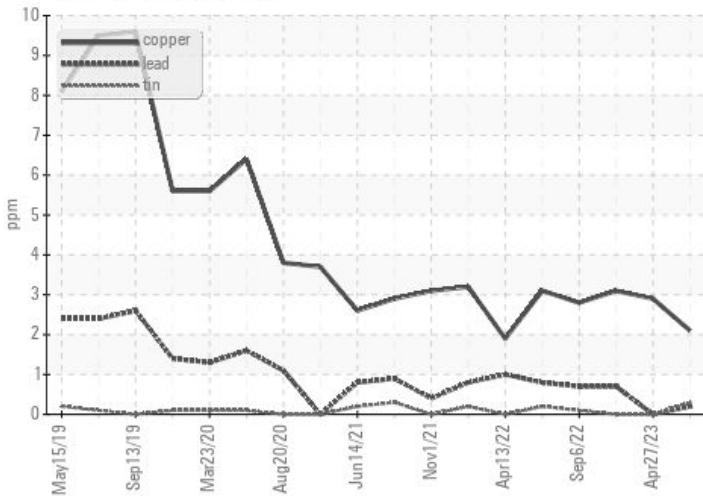


GRAPHS

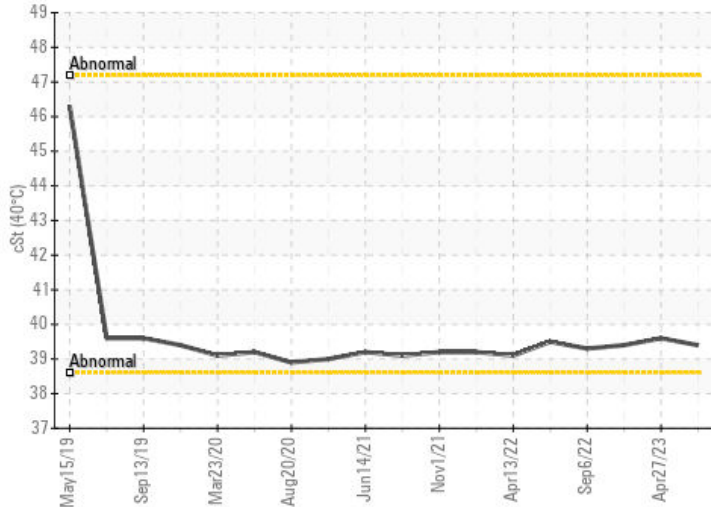
Ferrous Alloys



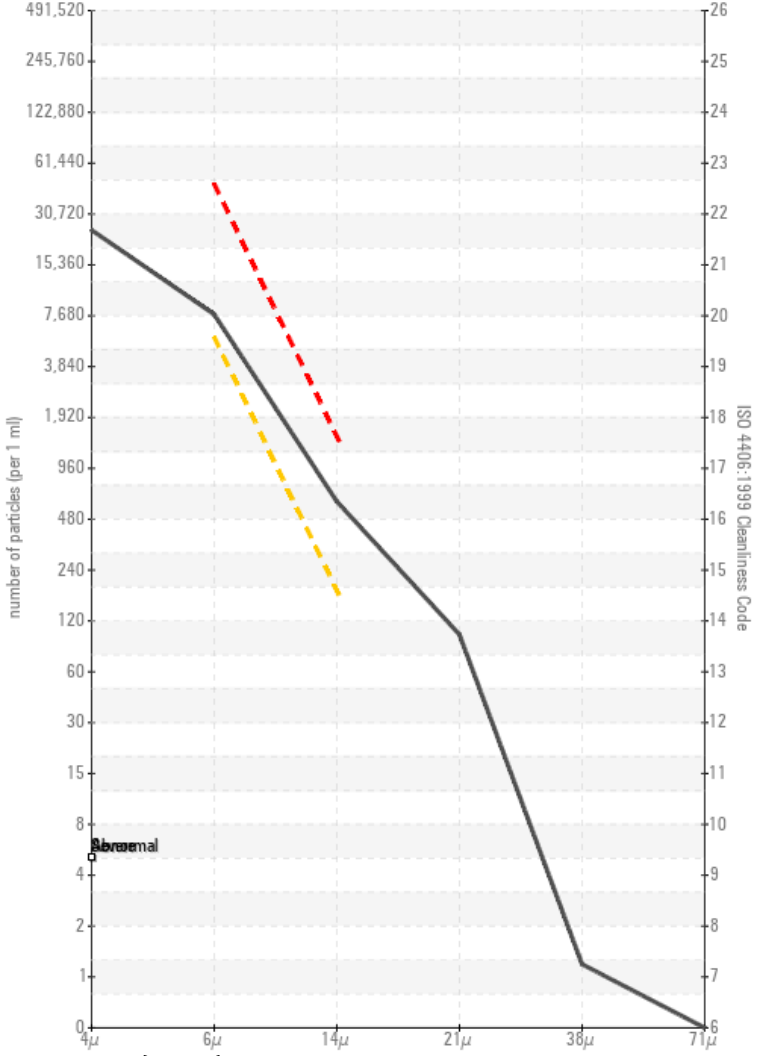
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

