



CONSTRUCTION EQUIPMENT

VOLVO A40F 12382 - HYDRAULIC SYSTEM



Sample No: VCP312564

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP312564	VCP385202	VCP358441	VCP347698
Sample Date	01 Sep 2023	24 Jan 2023	14 Jul 2022	01 Jun 2022
Machine Hours	13992	12493	11416	11122
Oil Hours	973	1371	294	1554
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	39.5	39.7	44.6	39.9
Acid Number (AN)	mg KOH/g	1.16	1.23	1.12	1.12



CONTAMINATION

Particles >4µm		15509	51640	12518	28820
Particles >6µm		2365	15709	3316	7189
Particles >14µm		77	668	210	346
ISO 4406:1999 (c)		21/18/13	23/21/17	21/19/15	22/20/16
Silicon	ppm	13	11	10	11
Sodium	ppm	4	4	2	4
Potassium	ppm	0	0	0	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	5	4	4	4
Copper	ppm	2	2	2	2
Lead	ppm	1	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	<1	3	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	<1	<1	1	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2480	2464	2751	2572
Magnesium	ppm	24	17	20	17
Zinc	ppm	1060	980	1119	1048
Phosphorus	ppm	846	809	889	867
Barium	ppm	0	0	0	0
Boron	ppm	6	5	9	3

Depot: SCHGRE
Unique No: 10671857
Signed: Don Baldrige
Report Date: 02 Oct 2023

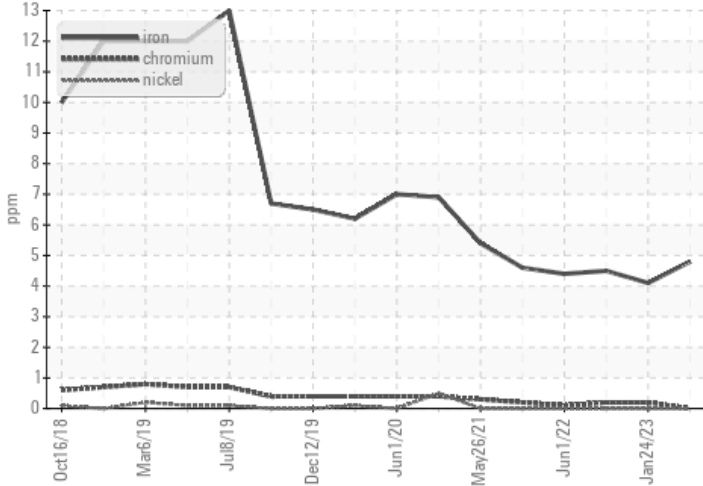


CONSTRUCTION EQUIPMENT

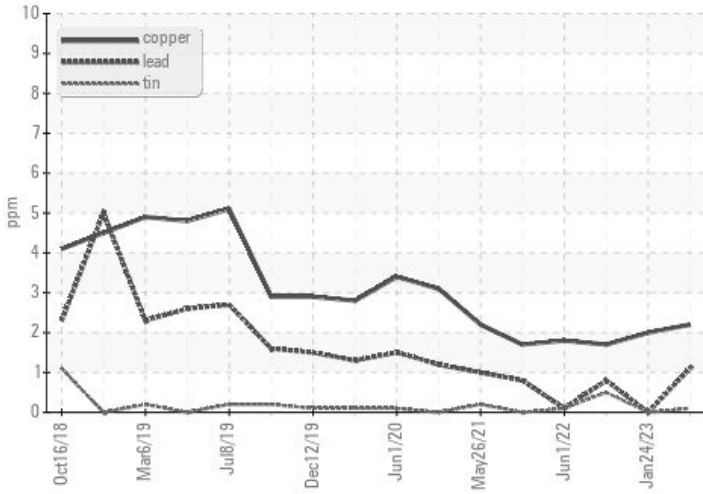


VOLVO GRAPHS

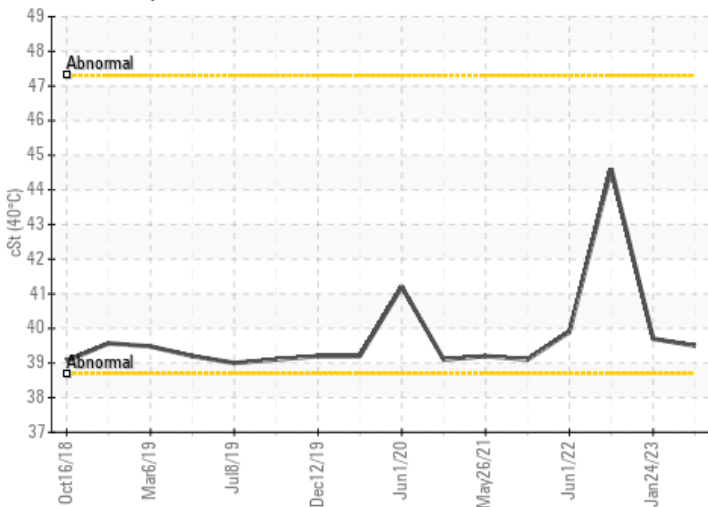
Ferrous Alloys



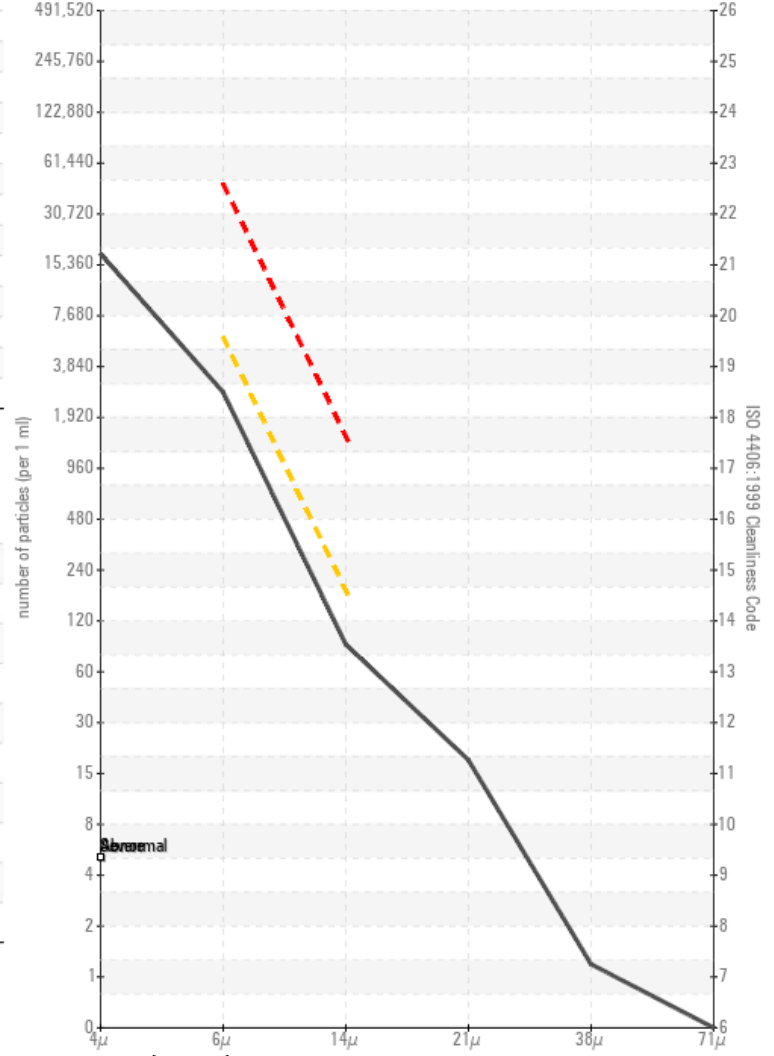
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

