



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - HYDRAULIC SYSTEM



Sample No: VCP406126

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP406126	VCP405725	VCP384420	VCP377138
Sample Date	01 Aug 2023	20 Jun 2023	27 Mar 2023	12 Dec 2022
Machine Hours	16113	15839	15225	14690
Oil Hours	2004	1730	1116	581
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	NORMAL	ATTENTION

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 40°C	cSt	39.6	39.9	39.9	40.0
Acid Number (AN)	mg KOH/g	1.22	1.25	1.37	1.22



CONTAMINATION

Particles >4µm		817	11723	2276	9551
Particles >6µm		241	4004	521	3571
Particles >14µm		19	336	12	225
ISO 4406:1999 (c)		17/15/11	21/19/16	18/16/11	20/19/15
Silicon	ppm	14	14	15	18
Sodium	ppm	3	2	<1	4
Potassium	ppm	0	1	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	3	3	4	2
Copper	ppm	2	<1	1	1
Lead	ppm	<1	0	<1	3
Tin	ppm	0	<1	0	6
Aluminum	ppm	3	4	1	3
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	2	2	2	4
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3042	3356	3042	3585
Magnesium	ppm	25	26	22	31
Zinc	ppm	1066	1210	1079	1241
Phosphorus	ppm	851	971	886	1055
Barium	ppm	0	0	0	0
Boron	ppm	3	3	3	6

Depot: SCHGRE
Unique No: 10617351
Signed: Don Baldrige
Report Date: 24 Aug 2023

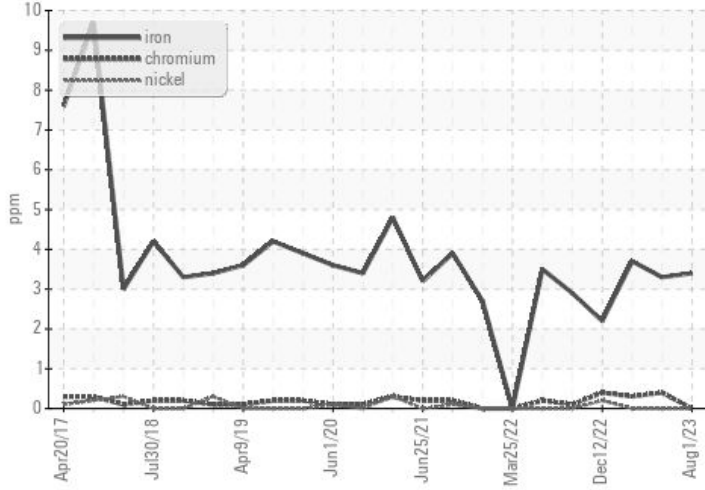


CONSTRUCTION EQUIPMENT

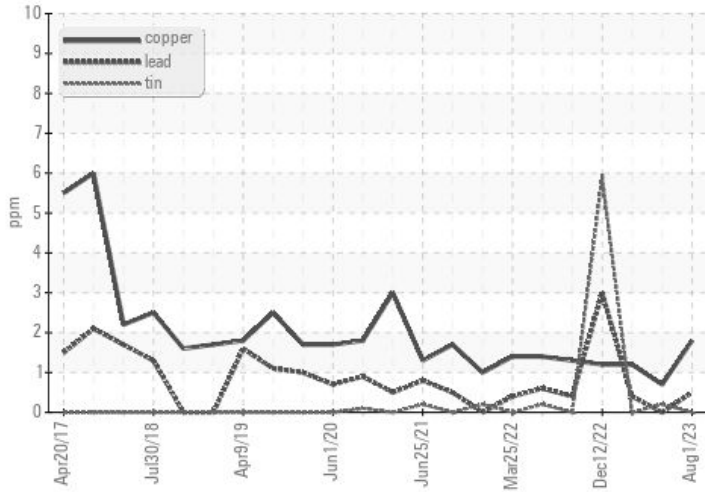


GRAPHS

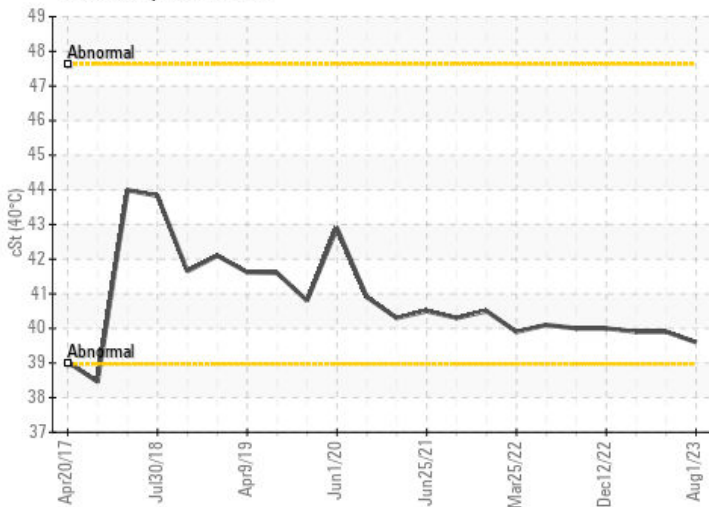
Ferrous Alloys



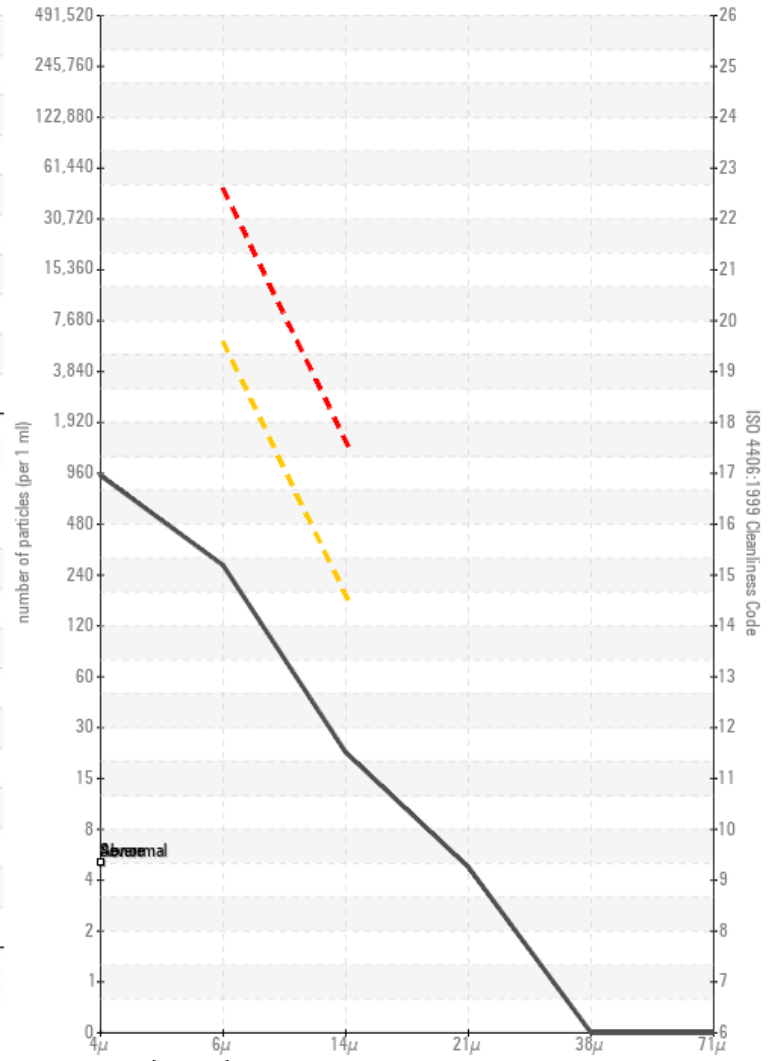
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

