



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - HYDRAULIC SYSTEM



Sample No: VCP405725

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP405725	VCP384420	VCP377138	VCP342173
Sample Date	20 Jun 2023	27 Mar 2023	12 Dec 2022	13 Sep 2022
Machine Hours	15839	15225	14690	14109
Oil Hours	1730	1116	581	2018
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	ABNORMAL	NORMAL	ATTENTION	NORMAL

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	39.9	39.9	40.0	40.0
Acid Number (AN)	mg KOH/g	1.25	1.37	1.22	1.17



CONTAMINATION

Particles >4µm		11723	2276	9551	2351
Particles >6µm		4004	521	3571	342
Particles >14µm		336	12	225	13
ISO 4406:1999 (c)		21/19/16	18/16/11	20/19/15	18/16/11
Silicon	ppm	14	15	18	11
Sodium	ppm	2	<1	4	<1
Potassium	ppm	1	2	0	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 suitable for further service.



WEAR METALS

Iron	ppm	3	4	2	3
Copper	ppm	<1	1	1	1
Lead	ppm	0	<1	3	<1
Tin	ppm	<1	0	6	0
Aluminum	ppm	4	1	3	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	2	4	2
Nickel	ppm	0	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3356	3042	3585	3048
Magnesium	ppm	26	22	31	21
Zinc	ppm	1210	1079	1241	1059
Phosphorus	ppm	971	886	1055	890
Barium	ppm	0	0	0	2
Boron	ppm	3	3	6	5

Depot: SCHGRE
Unique No: 10545867
Signed: Don Baldrige
Report Date: 07 Jul 2023

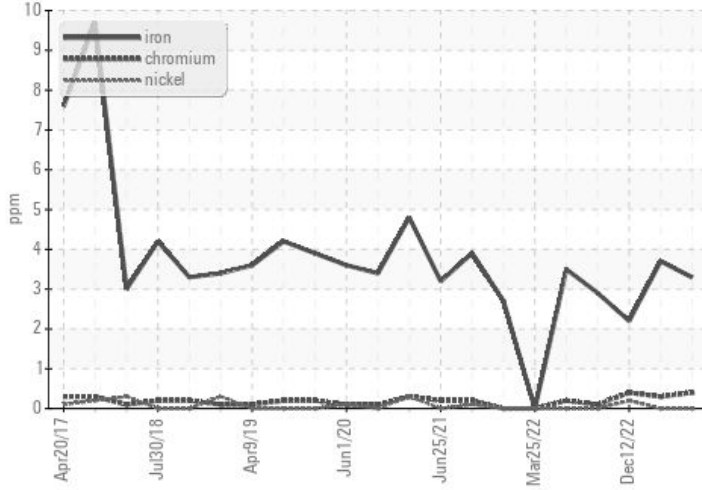


CONSTRUCTION EQUIPMENT

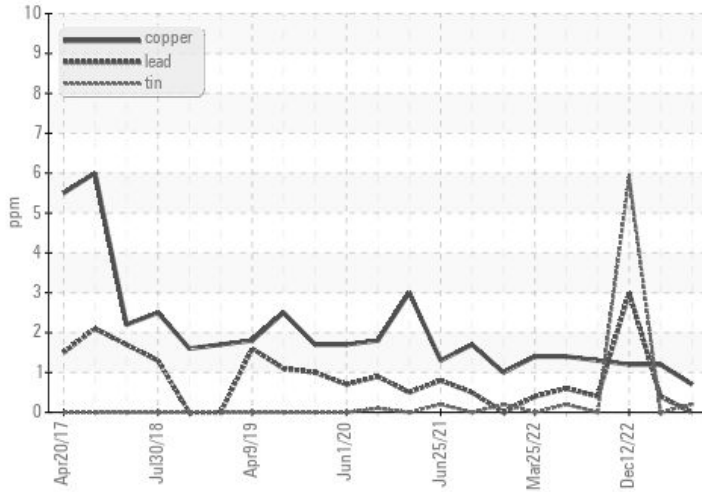


GRAPHS

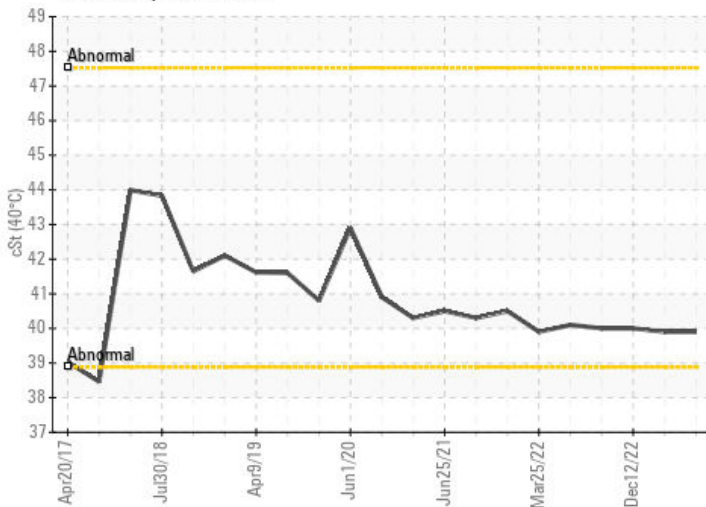
Ferrous Alloys



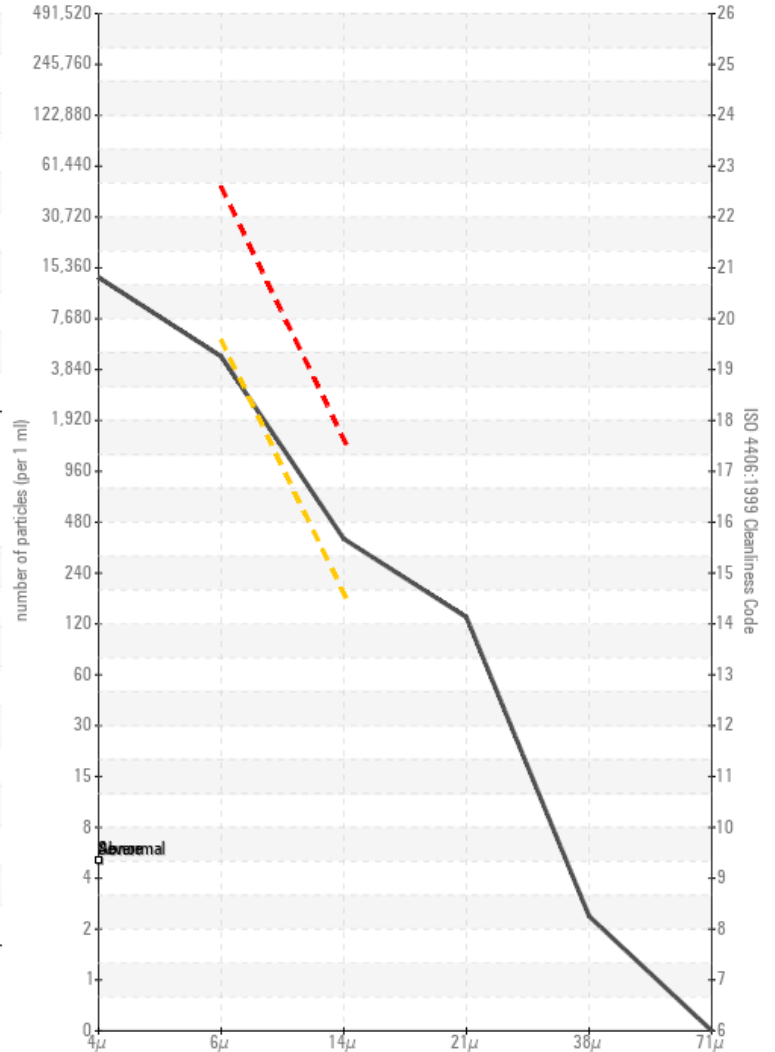
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

