



CONSTRUCTION EQUIPMENT

VOLVO A40G 341476 - HYDRAULIC SYSTEM



Sample No: VCP416756
Oil Type: MOBIL 10W
Job No:



SAMPLE INFORMATION

Sample Number	VCP416756	VCP405735	VCP378446	VCP400067
Sample Date	06 Feb 2024	24 Oct 2023	12 Sep 2023	20 Jun 2023
Machine Hours	17630	17166	16932	16355
Oil Hours	464	1871	1637	1060
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	NORMAL	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	39.9	40.7	41.7	39.7
Acid Number (AN)	mg KOH/g	1.21	1.07	1.14	1.17



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		2003	1986	25671	9208
Particles >6µm		222	296	3227	2979
Particles >14µm		11	7	96	304
ISO 4406:1999 (c)		18/15/11	18/15/10	22/19/14	20/19/15
Silicon	ppm	16	15	15	15
Sodium	ppm	6	4	5	4
Potassium	ppm	0	<1	0	2

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	2	3	3	4
Copper	ppm	3	2	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	4	4	<1	5
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	2	2	2	3
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2881	3017	2903	3318
Magnesium	ppm	22	31	32	30
Zinc	ppm	976	1140	1109	1267
Phosphorus	ppm	866	931	886	1004
Barium	ppm	0	0	0	0
Boron	ppm	2	3	<1	2

Depot: SCHGRE
Unique No: 10898306
Signed: Don Baldrige
Report Date: 27 Feb 2024

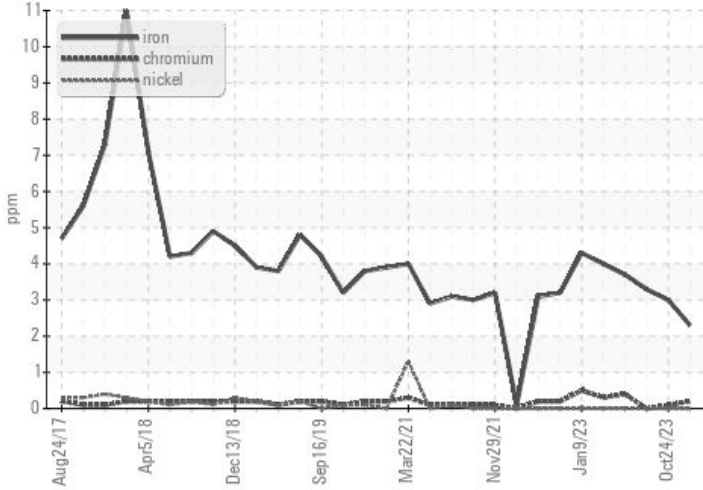


CONSTRUCTION EQUIPMENT

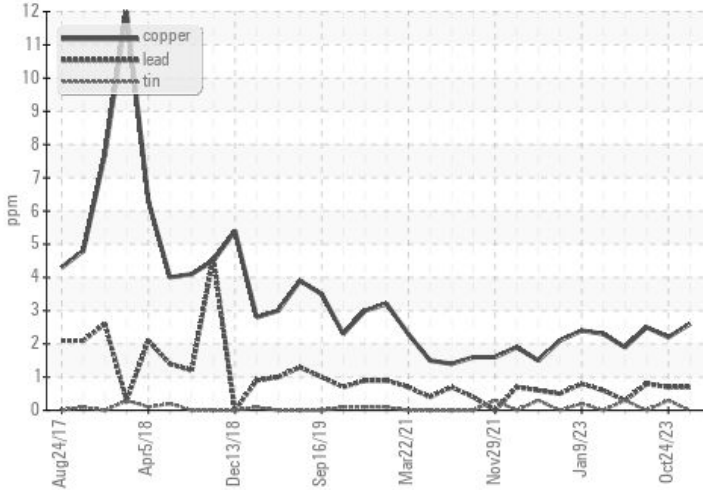


GRAPHS

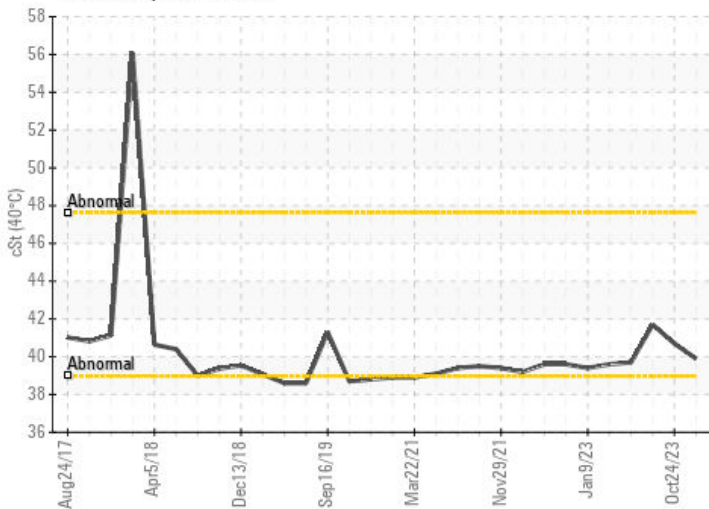
Ferrous Alloys



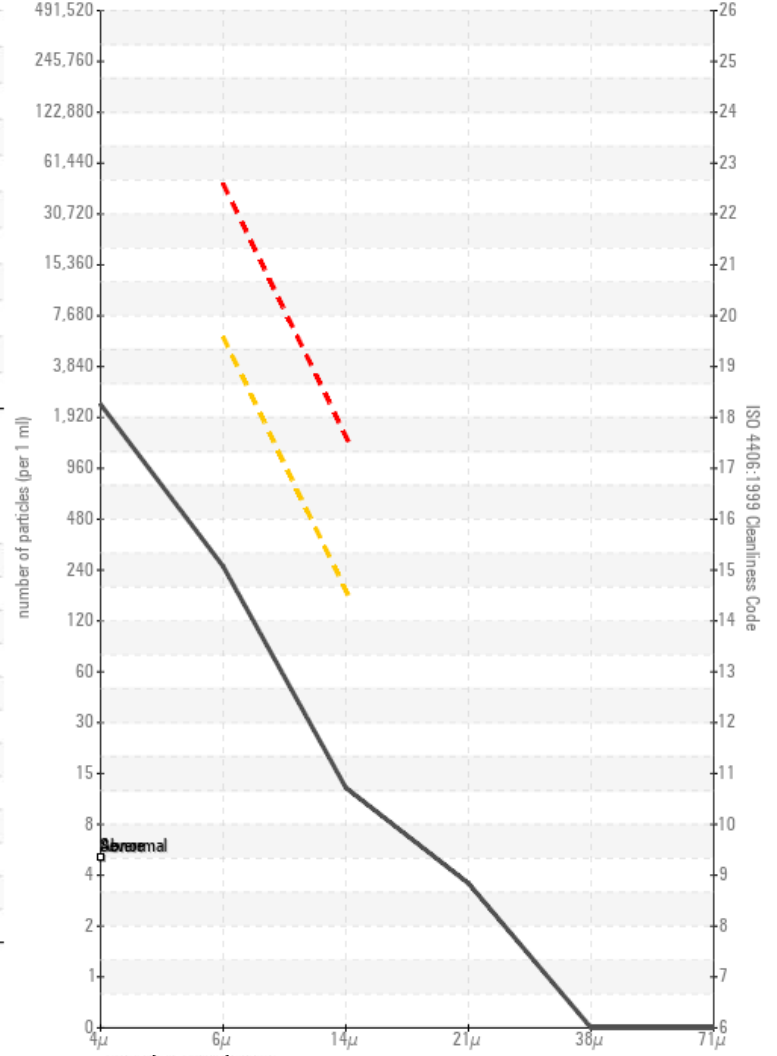
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

