



CONSTRUCTION EQUIPMENT

VOLVO A40G 341476 - HYDRAULIC SYSTEM



Sample No: VCP378446

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP378446	VCP400067	VCP384416	VCP373803
Sample Date	12 Sep 2023	20 Jun 2023	27 Mar 2023	09 Jan 2023
Machine Hours	16932	16355	15742	15295
Oil Hours	1637	1060	447	1806
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	ATTENTION	NORMAL	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	41.7	39.7	39.6	39.4
Acid Number (AN)	mg KOH/g	1.14	1.17	1.40	1.21



CONTAMINATION

Particles >4µm	25671	9208	2401	25675	
Particles >6µm	3227	2979	593	2556	
Particles >14µm	96	▲ 304	23	46	
ISO 4406:1999 (c)	22/19/14	20/19/15	18/16/12	22/19/13	
Silicon	ppm	15	15	15	19
Sodium	ppm	5	4	2	2
Potassium	ppm	0	2	2	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	3	4	4	4
Copper	ppm	2	2	2	2
Lead	ppm	<1	<1	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	5	2	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	2	3	2	3
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2903	3318	3036	3054
Magnesium	ppm	32	30	27	27
Zinc	ppm	1109	1267	1145	1150
Phosphorus	ppm	886	1004	930	944
Barium	ppm	0	0	0	1
Boron	ppm	<1	2	2	3

Depot: SCHGRE
Unique No: 10671858
Signed: Don Baldrige
Report Date: 02 Oct 2023

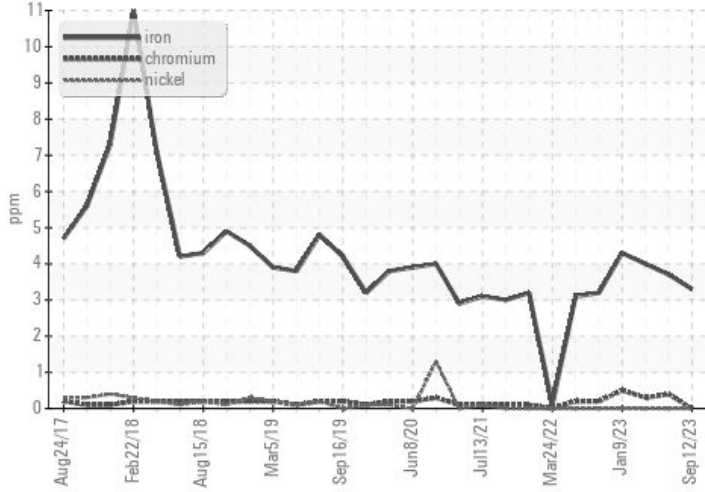


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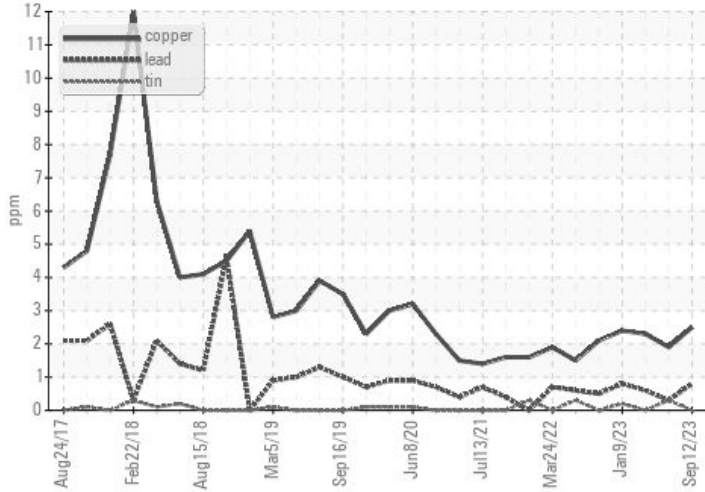


GRAPHS

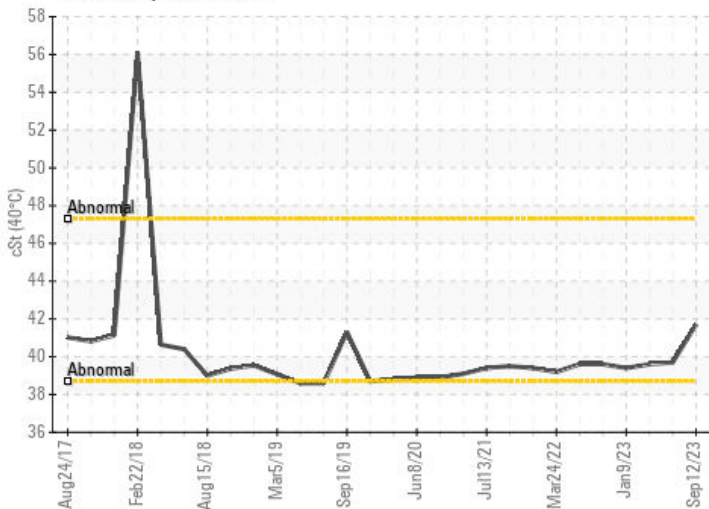
Ferrous Alloys



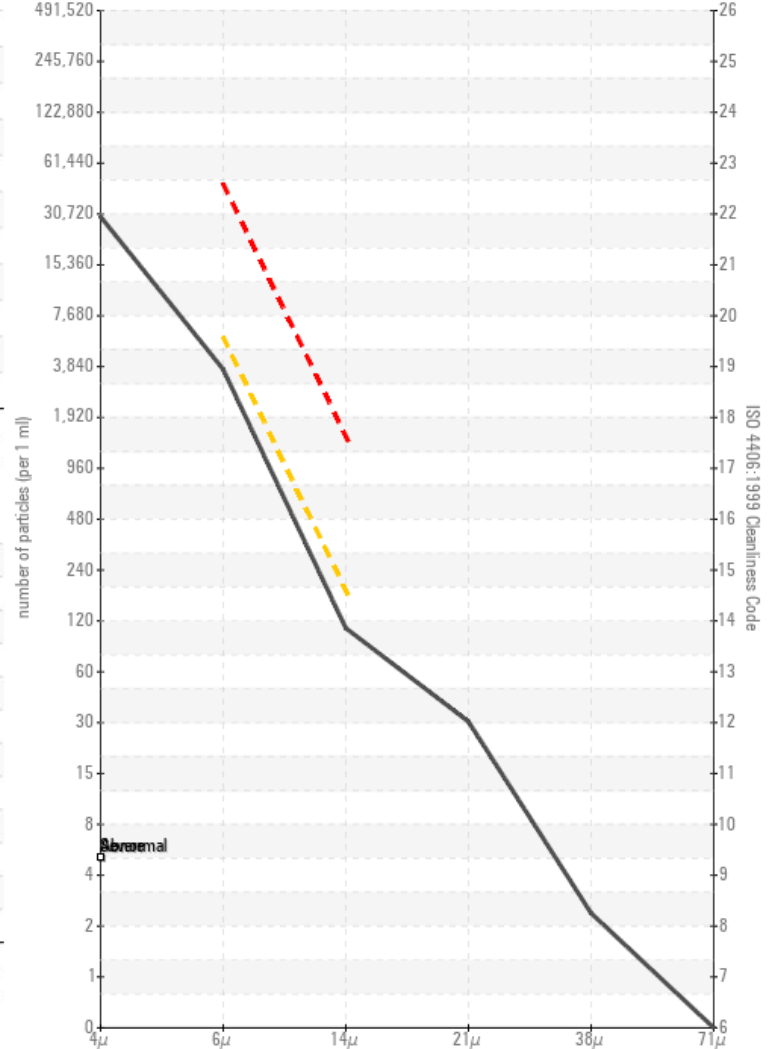
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

