



CONSTRUCTION EQUIPMENT

VOLVO A40G 342253 - HYDRAULIC SYSTEM



Sample No: VCP443370

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP443370	VCP441986	VCP442856	VCP396996
Sample Date	19 Apr 2024	05 Feb 2024	06 Dec 2023	25 Sep 2023
Machine Hours	11686	11196	10949	10423
Oil Hours	490	2150	1903	1377
Oil Changed	Not Changd	Changed	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ATTENTION	ABNORMAL

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	39.0	40.5	40.5	40.3
Acid Number (AN)	mg KOH/g	1.18	0.95	1.23	1.10



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		11930	---	29593	---
Particles >6µm		2601	---	7255	---
Particles >14µm		110	---	294	---
ISO 4406:1999 (c)		21/19/14	---	22/20/15	---
Silicon	ppm	13	15	14	15
Sodium	ppm	3	2	4	3
Potassium	ppm	0	0	0	0

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. The amount and size of particulates present in the system are acceptable. There is no indication of any contamination 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	2	2	0	2
Copper	ppm	<1	<1	2	1
Lead	ppm	0	<1	0	0
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	2	1	2	1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3091	3051	3086	3055
Magnesium	ppm	21	29	28	30
Zinc	ppm	948	1060	1028	994
Phosphorus	ppm	836	855	860	835
Barium	ppm	0	0	0	0
Boron	ppm	<1	3	2	3

Depot: SCHGRE
Unique No: 11009025
Signed: Don Baldrige
Report Date: 07 May 2024

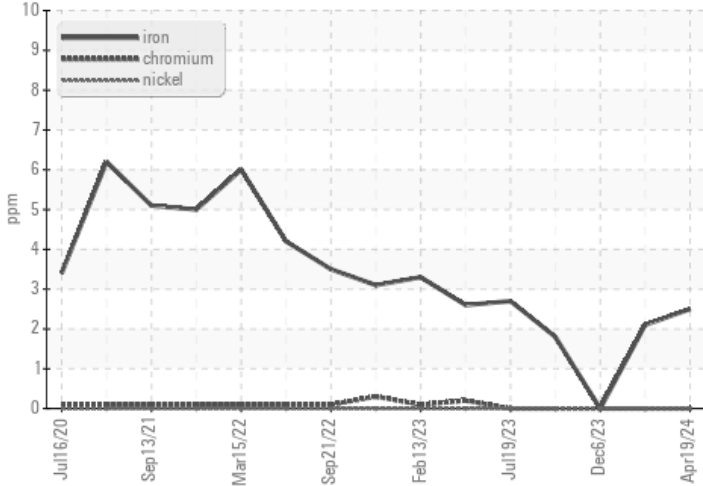


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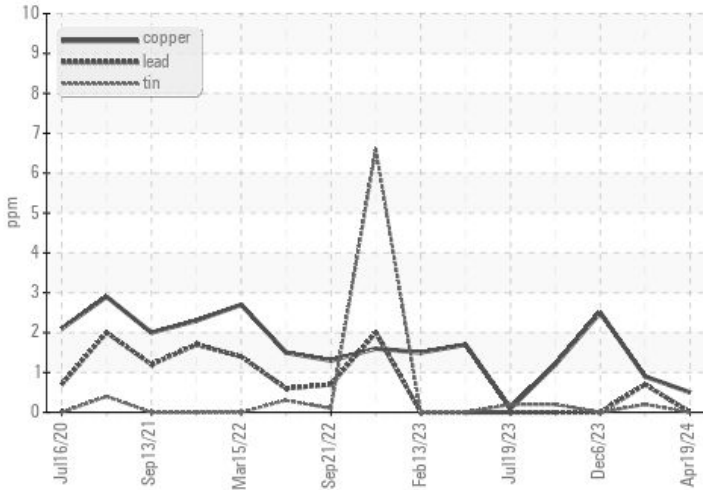


VOLVO GRAPHS

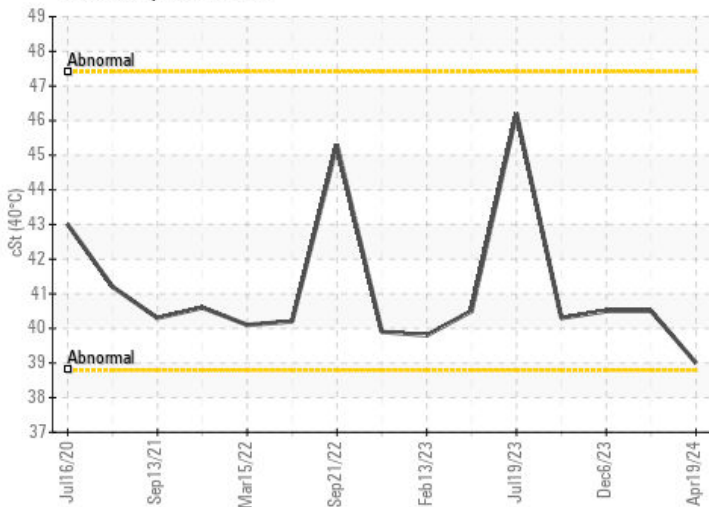
Ferrous Alloys



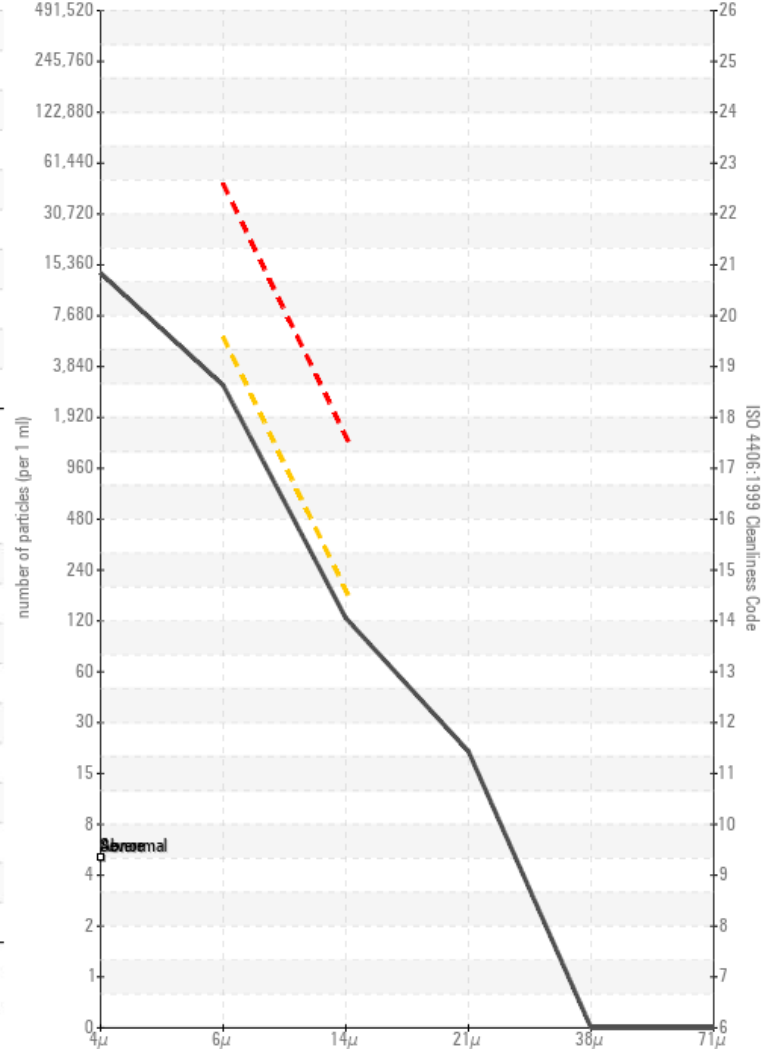
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

