



CONSTRUCTION EQUIPMENT

VOLVO A40G 352341 - HYDRAULIC SYSTEM



Sample No: VCP444070

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP444070	VCP433544	VCP331582	VCP312556
Sample Date	30 Apr 2024	02 Apr 2024	11 Dec 2023	03 Oct 2023
Machine Hours	7971	7735	7087	6606
Oil Hours	1974	1738	1090	609
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	ATTENTION

SCHILDBERG CONSTRUCTION COMPANY
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 GREENFIELD, IA
 US 50849
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 sarmstrong@schildberg.com
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OIL CONDITION

Visc @ 40°C	cSt	40.4	40.4	40.5	40.0
Acid Number (AN)	mg KOH/g	0.81	0.86	0.83	0.83

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		569	---	5078	20312
Particles >6µm		138	---	1778	5688
Particles >14µm		3	---	278	251
ISO 4406:1999 (c)		16/14/9	---	20/18/15	22/20/15
Silicon	ppm	12	13	11	11
Sodium	ppm	4	5	3	2
Potassium	ppm	0	0	0	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	6	4	4	4
Copper	ppm	1	2	1	1
Lead	ppm	2	1	1	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	<1	2
Chromium	ppm	0	0	0	0
Molybdenum	ppm	2	1	2	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	2295	2329	2267	2219
Magnesium	ppm	22	22	22	19
Zinc	ppm	817	854	857	825
Phosphorus	ppm	695	727	698	688
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	2	<1

Depot: SCHGRE
Unique No: 11018647
Signed: Wes Davis
Report Date: 09 May 2024

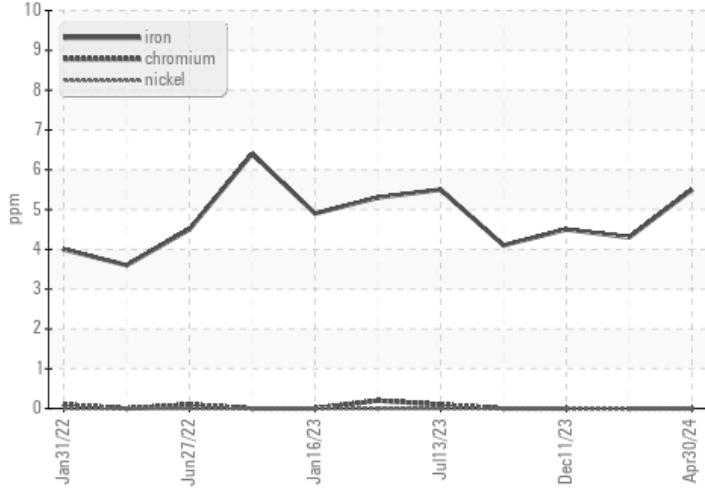


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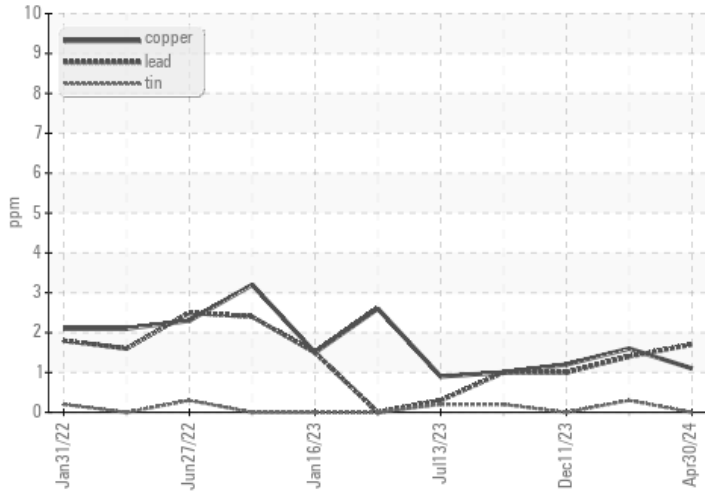


VOLVO GRAPHS

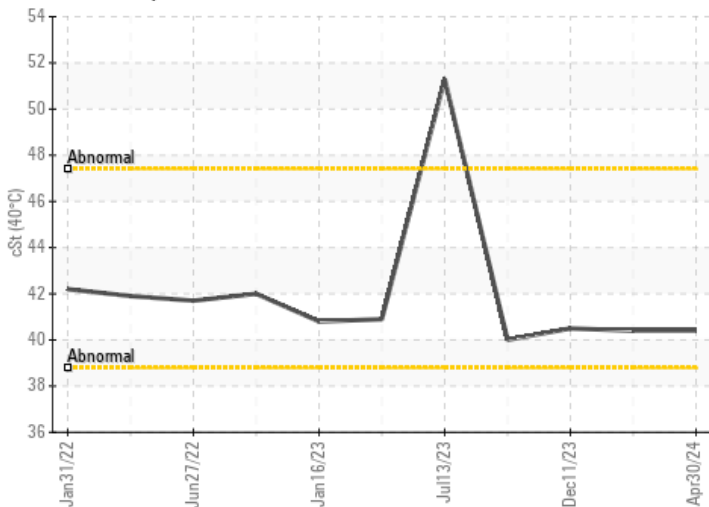
Ferrous Alloys



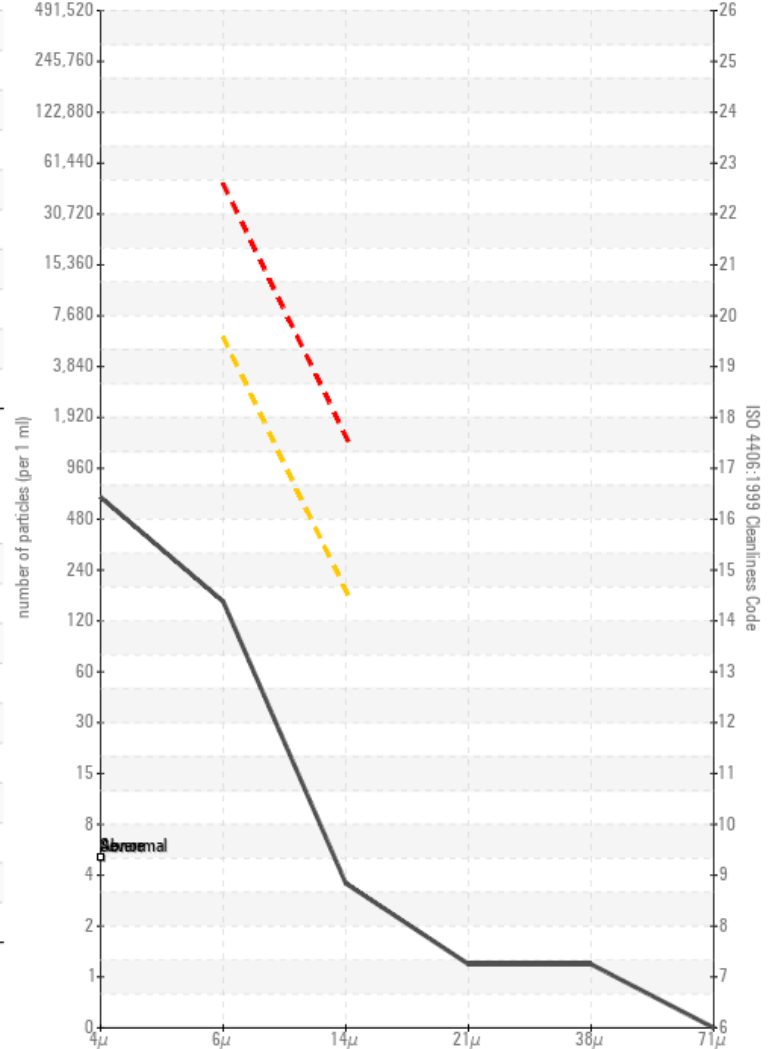
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

