



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - HYDRAULIC SYSTEM



Sample No: VCP452540
Oil Type: MOBIL 10W
Job No:



SAMPLE INFORMATION

Sample Number	VCP452540	VCP442545	VCP436370	VCP392525
Sample Date	10 Jun 2024	15 Apr 2024	08 Feb 2024	30 Oct 2023
Machine Hours	7523	7156	6743	6234
Oil Hours	2045	1675	1265	756
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	ATTENTION	ABNORMAL	ATTENTION

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OIL CONDITION

Visc @ 40°C	cSt	40.2	40.1	44.6	40.2
Acid Number (AN)	mg KOH/g	0.83	0.90	0.91	0.89



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		6789	41771	---	9081
Particles >6µm		2425	9634	---	2742
Particles >14µm		128	239	---	184
ISO 4406:1999 (c)		20/18/14	23/20/15	---	20/19/15
Silicon	ppm	13	11	12	12
Sodium	ppm	4	3	2	0
Potassium	ppm	0	0	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	5	4	3	4
Copper	ppm	<1	<1	<1	1
Lead	ppm	1	0	1	1
Tin	ppm	0	0	<1	0
Aluminum	ppm	2	2	2	3
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	<1	1	<1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	2401	2282	2371	2546
Magnesium	ppm	21	15	20	19
Zinc	ppm	855	771	907	922
Phosphorus	ppm	768	677	731	728
Barium	ppm	0	0	0	0
Boron	ppm	0	0	2	0

Depot: SCHGRE
Unique No: 11126524
Signed: Wes Davis
Report Date: 17 Jul 2024

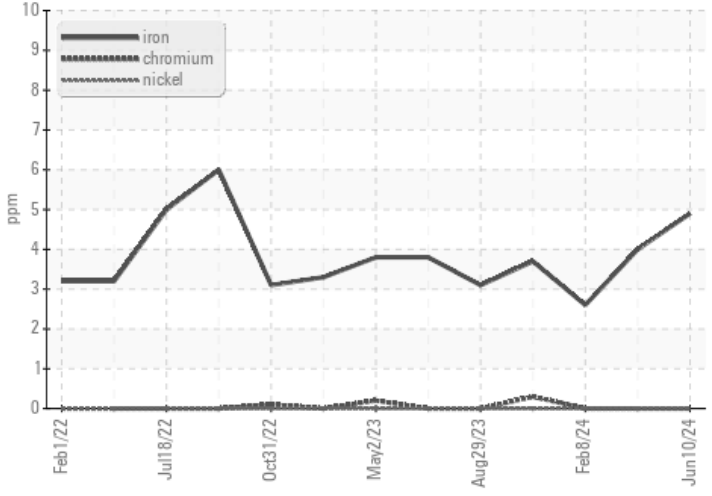


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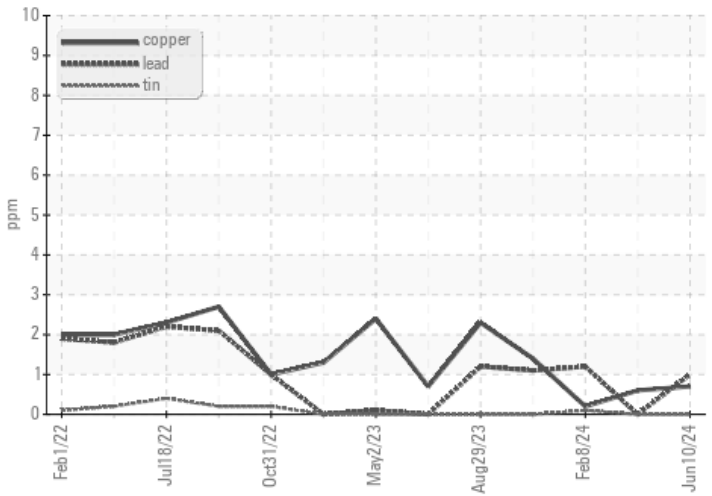


GRAPHS

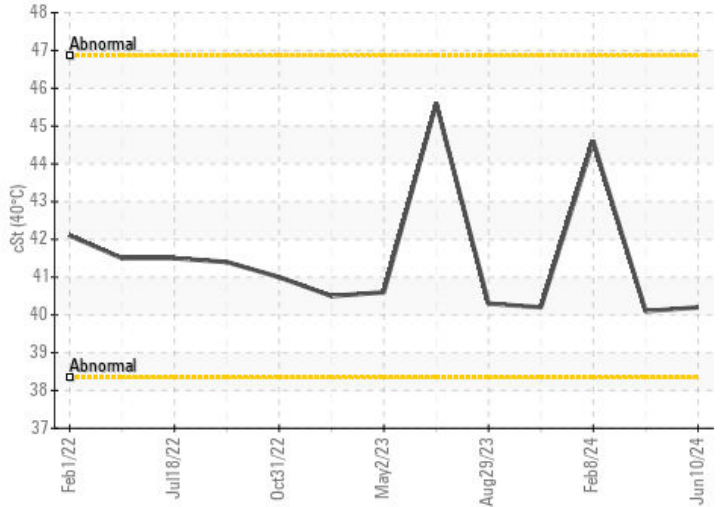
Ferrous Alloys



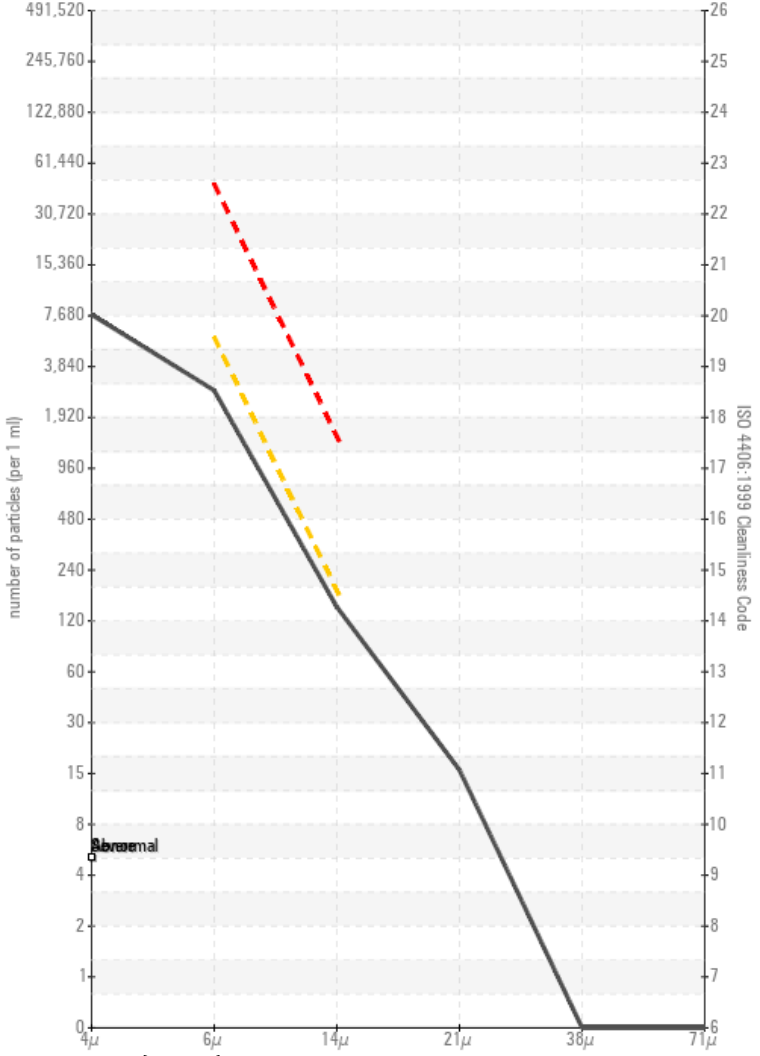
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

