



CONSTRUCTION EQUIPMENT

VOLVO A40G 352566 - HYDRAULIC SYSTEM



Sample No: VCP435159

Oil Type: MOBIL 10W

Job No:



SAMPLE INFORMATION

Sample Number	VCP435159	VCP331579	VCP312554	VCP404835
Sample Date	02 Apr 2024	11 Dec 2023	04 Oct 2023	21 Aug 2023
Machine Hours	5666	5026	4584	4239
Oil Hours	1082	442	2218	1873
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY

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OIL CONDITION

Visc @ 40°C	cSt	40.4	40.7	43.52	41.6
Acid Number (AN)	mg KOH/g	1.00	0.92	0.78	0.77



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		8643	15294	---	3478
Particles >6µm		2361	5343	---	362
Particles >14µm		144	501	---	16
ISO 4406:1999 (c)		20/18/14	21/20/16	---	19/16/11
Silicon	ppm	14	12	13	13
Sodium	ppm	5	3	3	3
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	4	4	6	5
Copper	ppm	2	1	2	1
Lead	ppm	1	<1	1	1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	2	1	2	2
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	1	2	1	2
Nickel	ppm	0	0	0	0
Titanium	ppm	0	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	0	0
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	2449	2440	1743	1837
Magnesium	ppm	20	19	12	11
Zinc	ppm	890	883	730	744
Phosphorus	ppm	771	727	605	580
Barium	ppm	0	0	0	0
Boron	ppm	<1	2	<1	0

Depot: SCHGRE
Unique No: 10989691
Signed: Wes Davis
Report Date: 22 Apr 2024

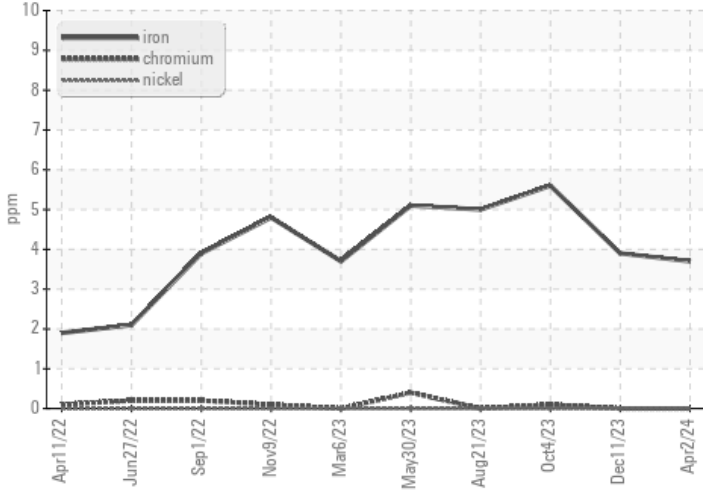


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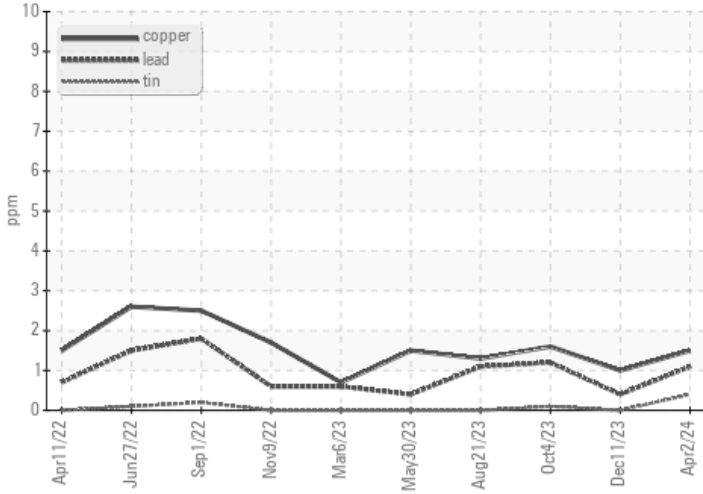


GRAPHS

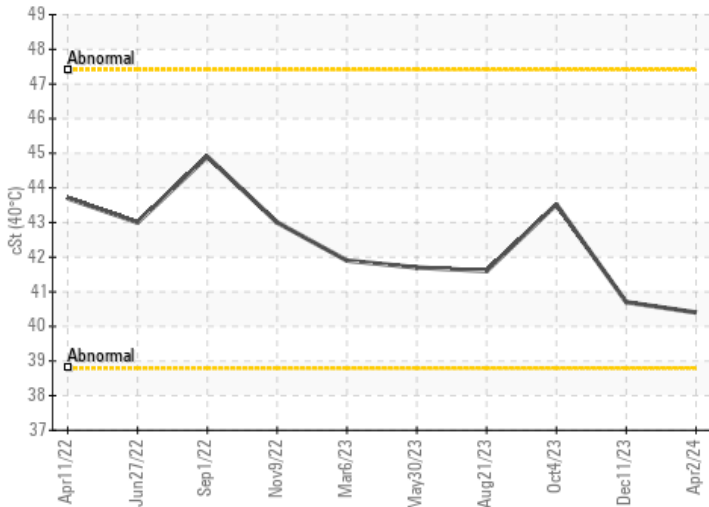
Ferrous Alloys



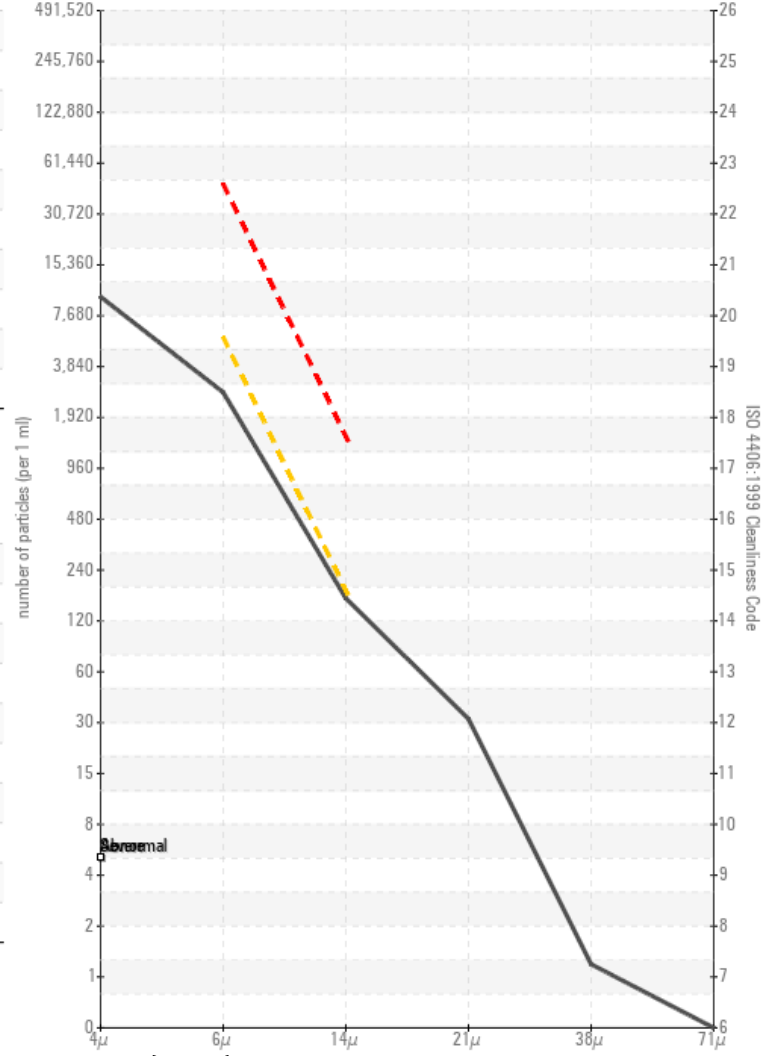
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

