



CONSTRUCTION EQUIPMENT

661347 BCSW VOLVO A40G 352381 - HYDRAULIC SYSTEM



Sample No: VCP439118
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 661347 BCSW



SAMPLE INFORMATION

Sample Number	VCP439118	VCP399697	VCP376909	VCP377412
Sample Date	07 Feb 2024	02 Mar 2023	15 Sep 2022	17 May 2022
Machine Hours	7523	5782	4951	4316
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.6	42.3	42.8	41.3
Acid Number (AN)	mg KOH/g	0.36	0.39	0.38	0.44



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		9683	617	1746	395
Particles >6µm		2602	130	397	83
Particles >14µm		115	15	40	12
ISO 4406:1999 (c)		20/19/14	16/14/11	18/16/12	16/14/11
Silicon	ppm	4	3	3	4
Sodium	ppm	0	2	1	<1
Potassium	ppm	<1	0	0	<1

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	9	5	3	7
Copper	ppm	4	2	1	4
Lead	ppm	4	1	2	4
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	<1	<1	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	1	1	<1
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	80	68	70	54
Magnesium	ppm	8	6	7	3
Zinc	ppm	412	369	412	438
Phosphorus	ppm	365	291	317	318
Barium	ppm	13	0	2	0
Boron	ppm	0	0	<1	<1

Depot: VOLVO0096
Unique No: 10873458
Signed: Wes Davis
Report Date: 13 Feb 2024

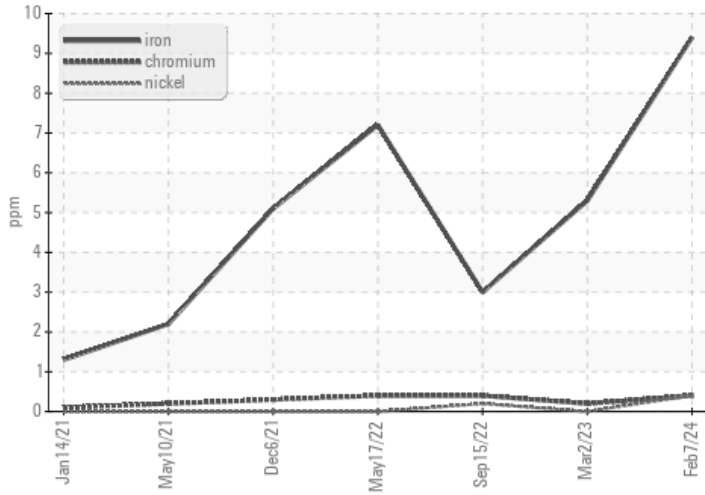


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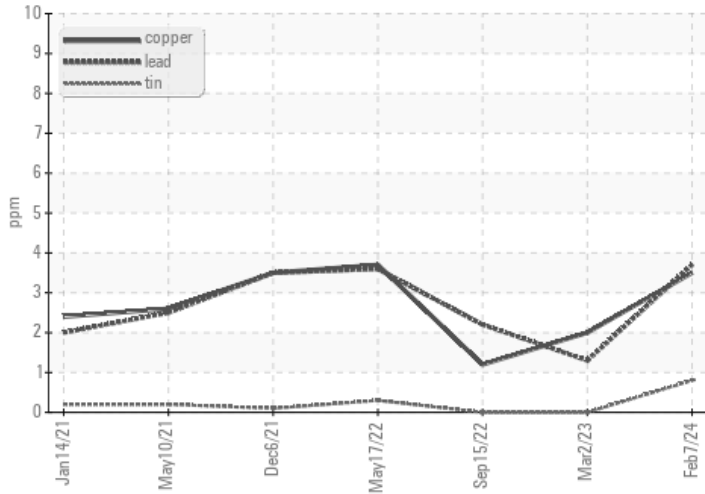


VOLVO GRAPHS

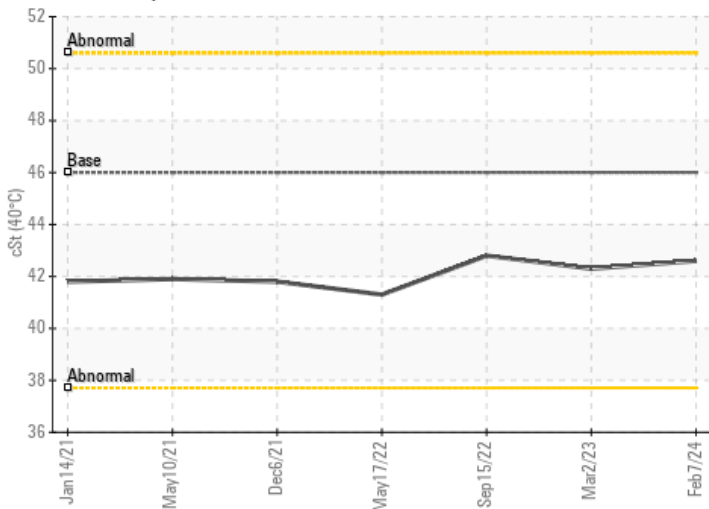
Ferrous Alloys



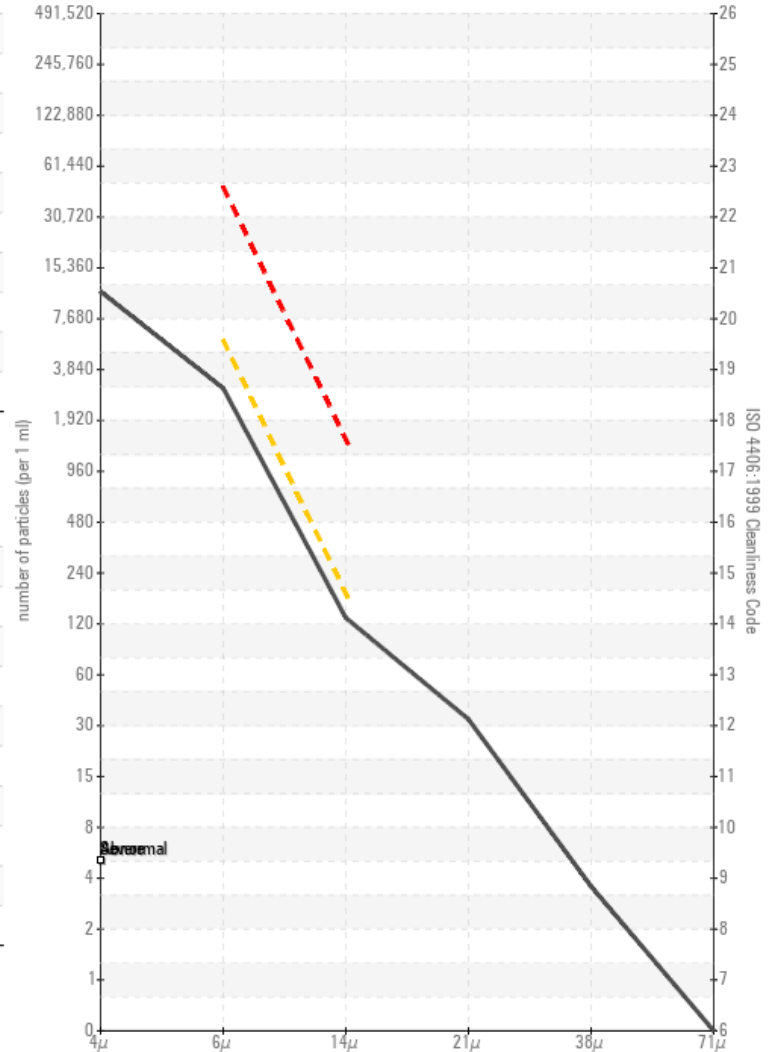
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

