



CONSTRUCTION EQUIPMENT

661201 BCSW VOLVO A40G 342555 - HYDRAULIC SYSTEM



Sample No: VCP439103
Oil Type: VOLVO SUPER HYDRAULIC OIL 46
Job No: 661201 BCSW



SAMPLE INFORMATION

Sample Number	VCP439103	VCP405200	VCP377171	VCP317561
Sample Date	02 Feb 2024	21 Apr 2023	07 Jun 2022	16 Jul 2021
Machine Hours	11136	9562	7678	6086
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.4	42.3	42.5	43.0
Acid Number (AN)	mg KOH/g	0.32	0.39	0.35	0.337



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Particles >4µm		12853	1166	---	1157
Particles >6µm		4039	280	---	240
Particles >14µm		730	17	---	13
ISO 4406:1999 (c)		21/19/17	17/15/11	---	17/15/11
Silicon	ppm	5	4	4	3
Sodium	ppm	2	3	2	2
Potassium	ppm	<1	0	0	0

Diagnosis

No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present 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	18	14	11	8
Copper	ppm	3	2	3	2
Lead	ppm	3	0	3	2
Tin	ppm	0	0	0	<1
Aluminum	ppm	<1	<1	<1	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	0	<1	<1	<1
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	0	0
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	110	78	79	76
Magnesium	ppm	8	2	4	4
Zinc	ppm	463	438	428	440
Phosphorus	ppm	353	349	348	331
Barium	ppm	0	0	0	0
Boron	ppm	0	0	1	4

Depot: VOLVO0096
Unique No: 10871750
Signed: Don Baldrige
Report Date: 12 Feb 2024

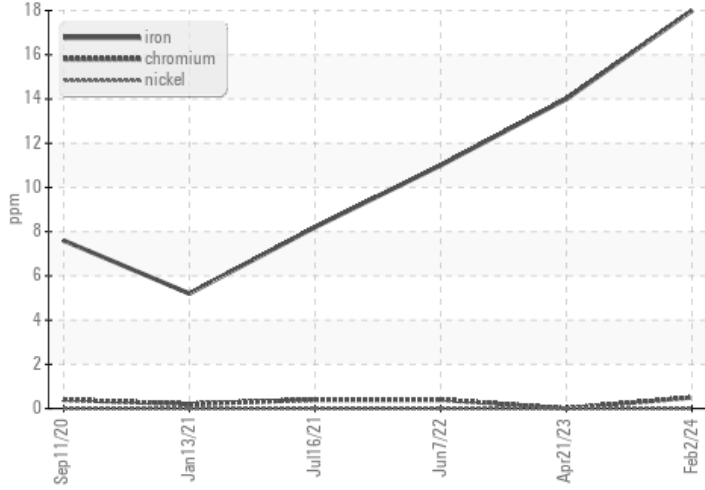


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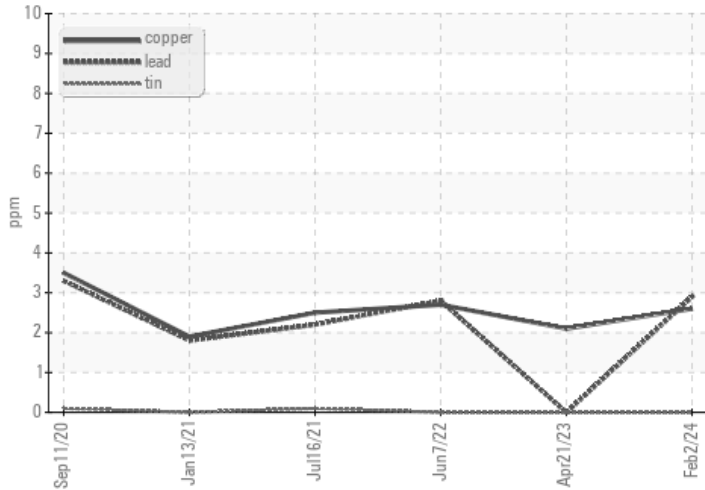


VOLVO GRAPHS

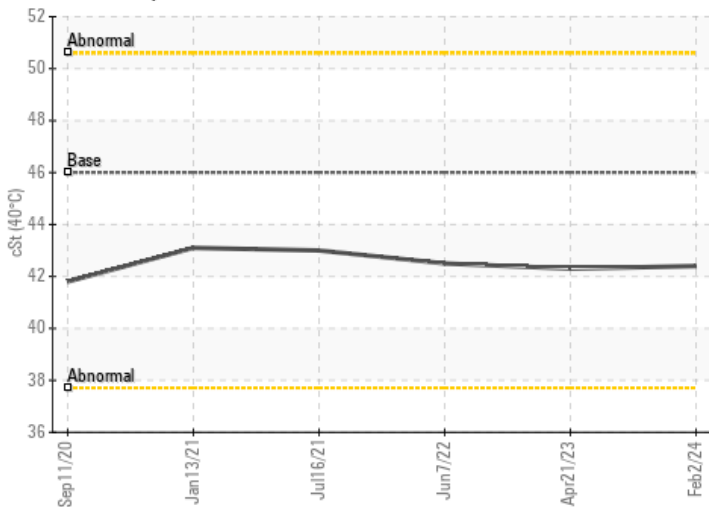
Ferrous Alloys



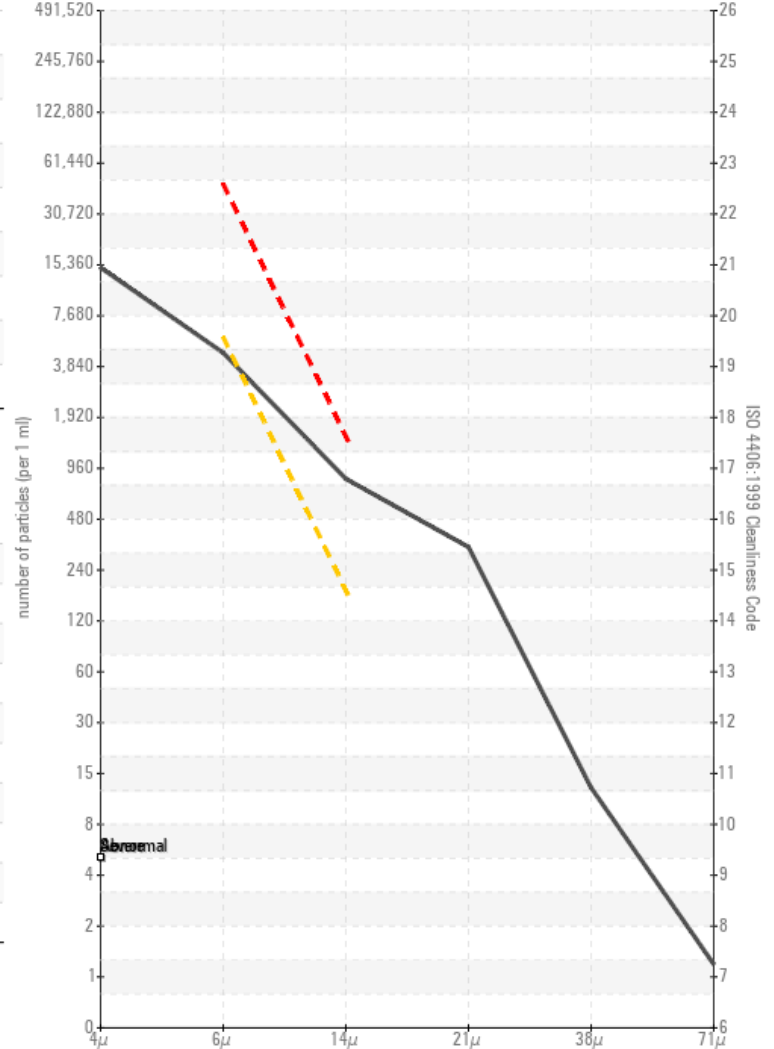
Non-ferrous Metals



Viscosity @ 40°C



Particle Count



Acid Number

