



CONSTRUCTION EQUIPMENT

661347 BCSW VOLVO A40G 352381 - BRAKE COOLING SYSTEM



Sample No: VCP441974
Oil Type: VOLVO WB 102
Job No: 661347 BCSW



SAMPLE INFORMATION

Sample Number	VCP441974	VCP399699	VCP376912	VCP336874
Sample Date	07 Feb 2024	02 Mar 2023	15 Sep 2022	06 Dec 2021
Machine Hours	7523	5782	4951	3414
Oil Hours	0	0	0	0
Oil Changed	Not Chngd	Not Chngd	Not Chngd	Not Chngd
Sample Status	ABNORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	40.3	42.4	39.6	39.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	18	17	18	19
Sodium	ppm	3	6	9	5
Potassium	ppm	1	<1	0	<1

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. All other component wear rates are normal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.



WEAR METALS

Iron	ppm	20	27	14	15
Copper	ppm	218	162	222	232
Lead	ppm	0	2	<1	<1
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	<1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	0	<1
Nickel	ppm	6	6	6	7
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	<1	2	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2972	3101	3196	3508
Magnesium	ppm	10	12	7	6
Zinc	ppm	1379	1314	1417	1416
Phosphorus	ppm	1354	1105	1216	1319
Barium	ppm	12	0	0	0
Boron	ppm	82	77	94	115

Depot: VOLVO0096
Unique No: 10876581
Signed: Jonathan Hester
Report Date: 16 Feb 2024

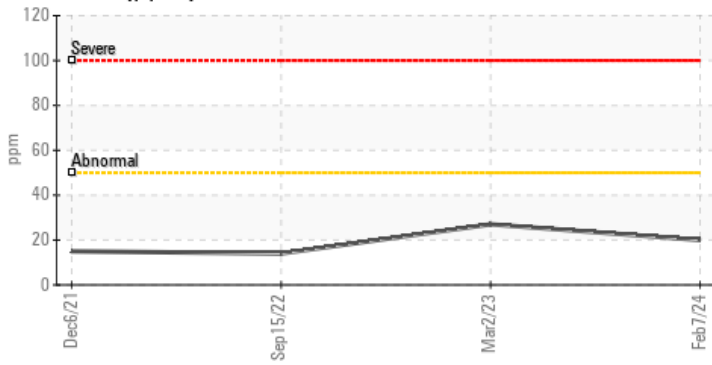


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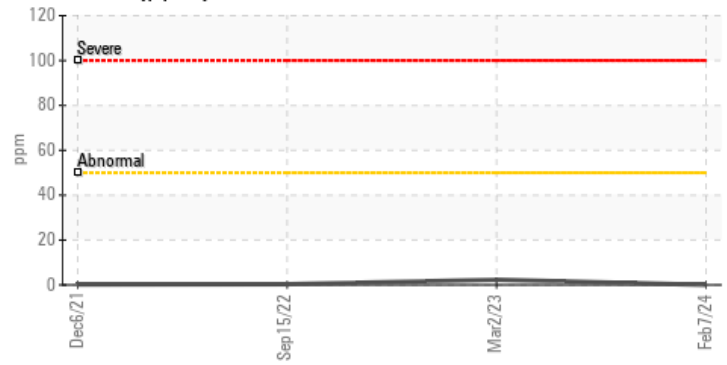


GRAPHS

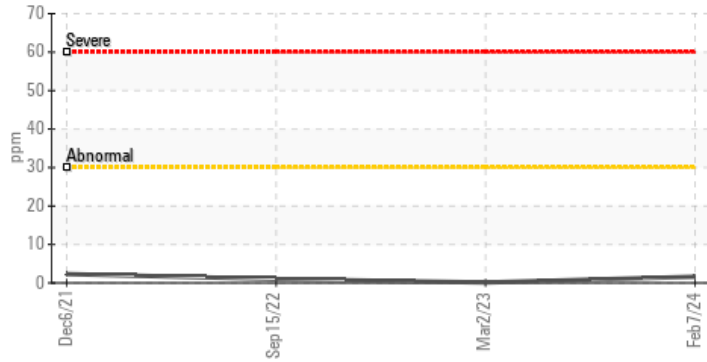
Iron (ppm)



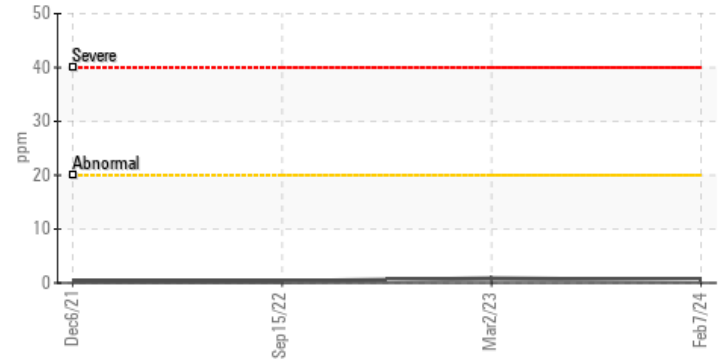
Lead (ppm)



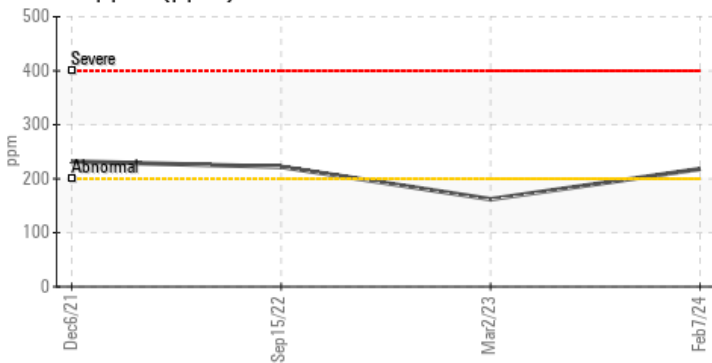
Aluminum (ppm)



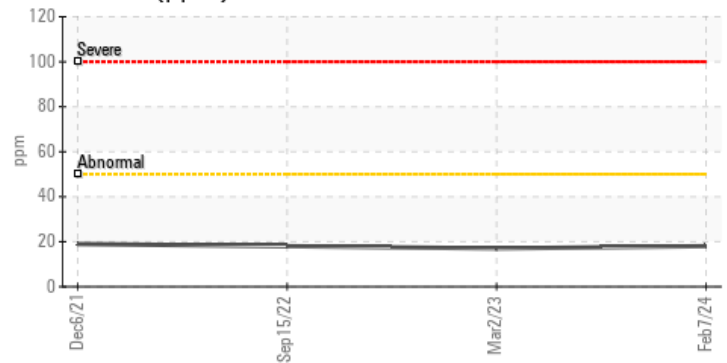
Chromium (ppm)



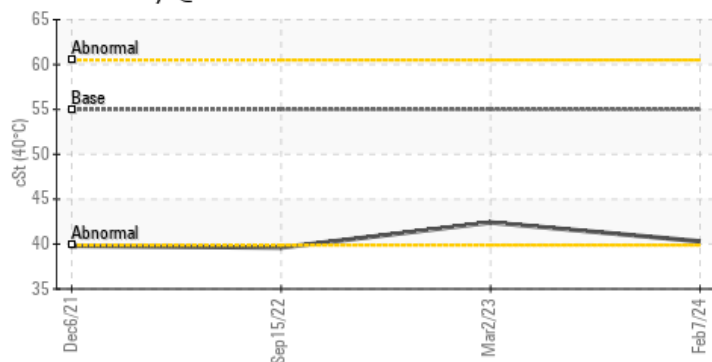
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

