



CONSTRUCTION EQUIPMENT

633732 PRIMORIS VOLVO A40G 352781 - BRAKE COOLING SYSTEM



Sample No: VCP432456
Oil Type: VOLVO WB 102
Job No: 633732 PRIMORIS



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SAMPLE INFORMATION

Sample Number	VCP432456	VCP393925	VCP396891	VCP365895
Sample Date	15 Nov 2023	26 Apr 2023	20 Dec 2022	16 Aug 2022
Machine Hours	4220	3725	2564	2547
Oil Hours	4220	3725	2564	500
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL



OIL CONDITION

Visc @ 40°C	cSt	39.6	39.8	39.7	46.7
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	25	21	18	45
Sodium	ppm	12	7	10	7
Potassium	ppm	0	2	0	3



WEAR METALS

Iron	ppm	52	25	17	133
Copper	ppm	248	258	100	8
Lead	ppm	4	<1	<1	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	<1	<1	1	<1
Chromium	ppm	1	<1	<1	1
Molybdenum	ppm	0	0	<1	11
Nickel	ppm	7	7	6	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	2	1	<1	5
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	3066	3490	3338	49
Magnesium	ppm	8	8	9	4
Zinc	ppm	1351	1493	1417	131
Phosphorus	ppm	1202	1262	1168	2286
Barium	ppm	0	0	0	0
Boron	ppm	104	110	114	94

Diagnosis

The fluid change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level is abnormal. The iron level is abnormal. There is no indication of any contamination in the fluid. The condition of the fluid is acceptable for the time in service.

Depot: VOLVO0093
Unique No: 10765274
Signed: Don Baldrige
Report Date: 03 Dec 2023

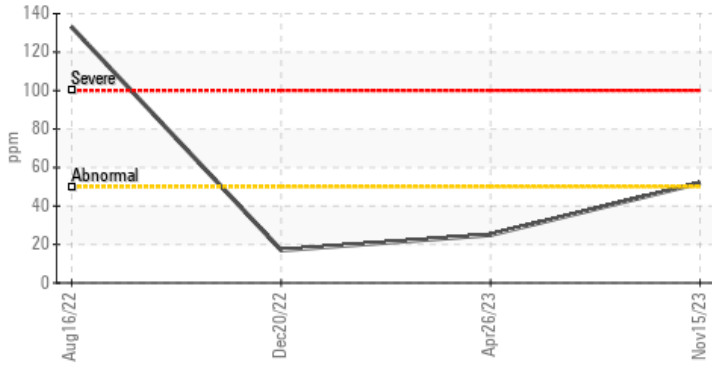


CONSTRUCTION EQUIPMENT

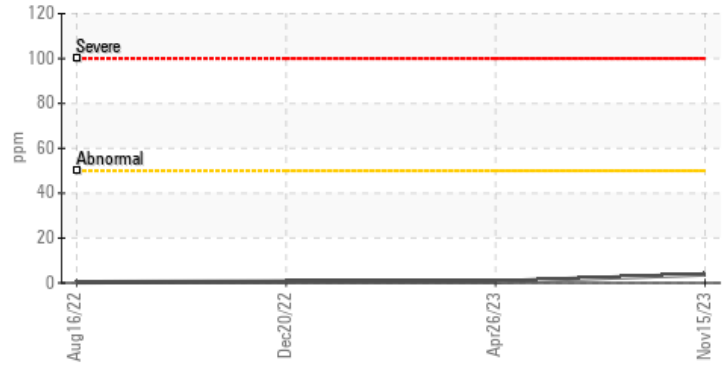


GRAPHS

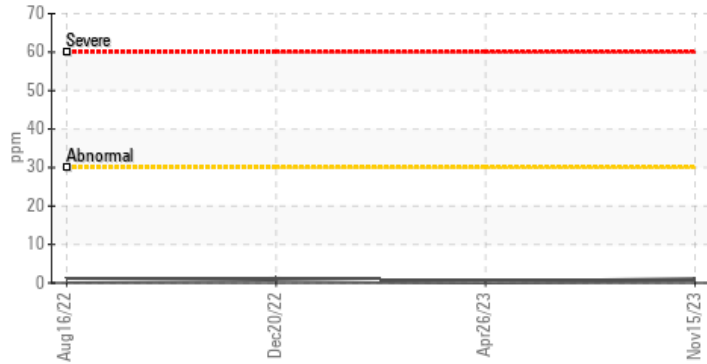
▲ Iron (ppm)



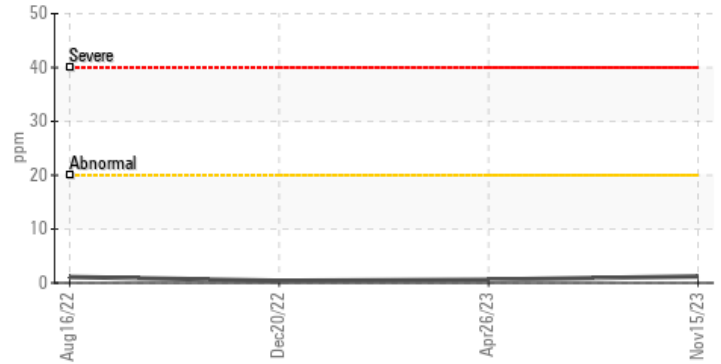
Lead (ppm)



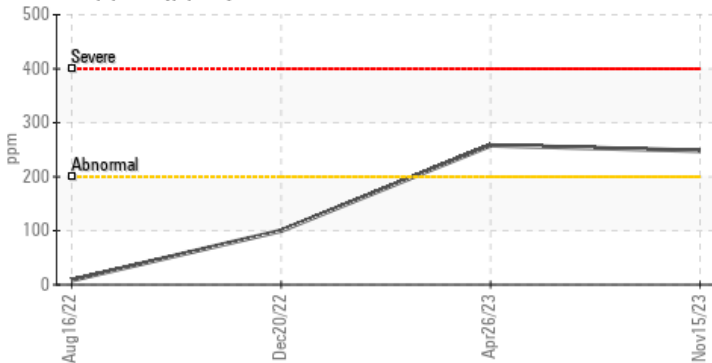
Aluminum (ppm)



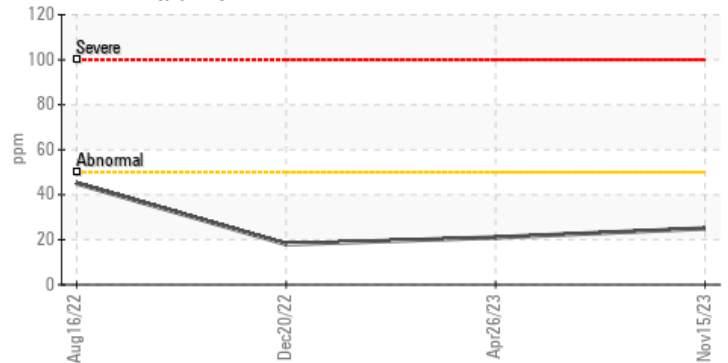
Chromium (ppm)



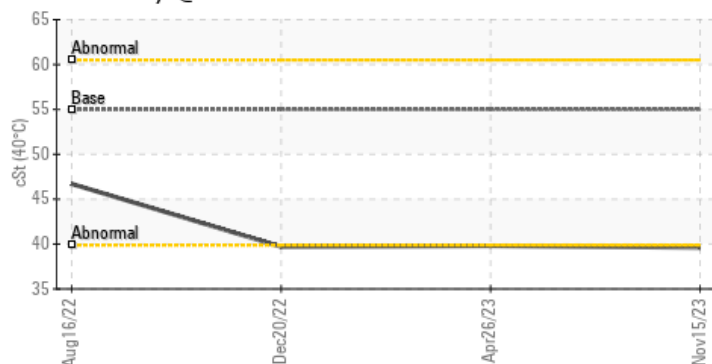
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

