



CONSTRUCTION EQUIPMENT

SW-26366-2 CASTLE VOLVO A40G 340313 - WET DISC BRAKE



Sample No: VCP441962
Oil Type: VOLVO WB 102
Job No: SW-26366-2 CASTLE



SAMPLE INFORMATION

Sample Number	VCP441962	VCP340953	VCP307912	VCP215893
Sample Date	16 Nov 2023	23 Nov 2021	02 Apr 2021	13 Apr 2018
Machine Hours	17580	13143	11646	5956
Oil Hours	4000	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	42.4	35.6	41.4	40.6
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	14	9	21
Sodium	ppm	6	4	3	5
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	16	24	30	39
Copper	ppm	256	115	131	340
Lead	ppm	4	5	1	2
Tin	ppm	<1	<1	0	0
Aluminum	ppm	<1	0	2	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	0	<1	<1	0
Nickel	ppm	<1	0	1	5
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	3486	3562	3627	3247
Magnesium	ppm	13	11	12	6
Zinc	ppm	1423	1291	1542	1361
Phosphorus	ppm	1279	1259	1231	1205
Barium	ppm	0	0	0	0
Boron	ppm	114	114	128	84

Diagnosis

The fluid change at the time of sampling has been noted. 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.

Depot: VOLVO8770
Unique No: 10763012
Signed: Don Baldrige
Report Date: 30 Nov 2023

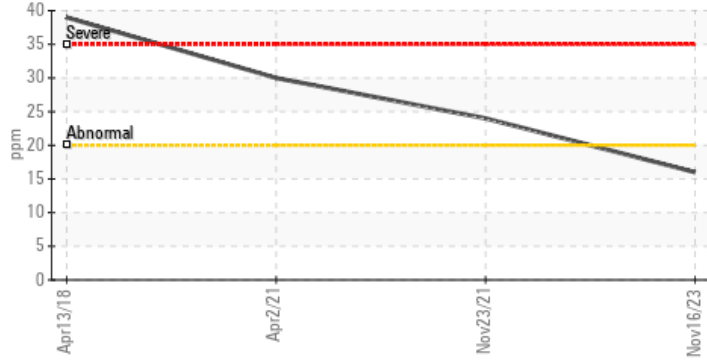


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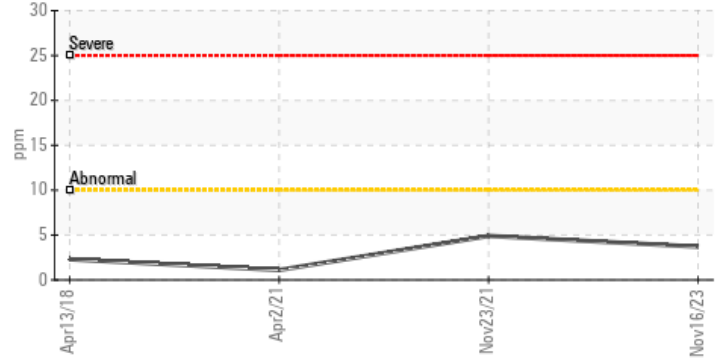


GRAPHS

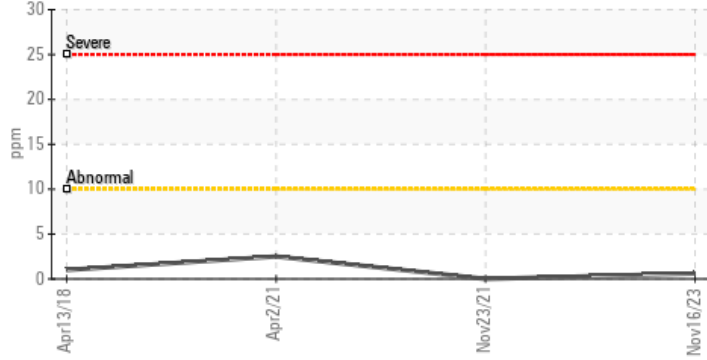
Iron (ppm)



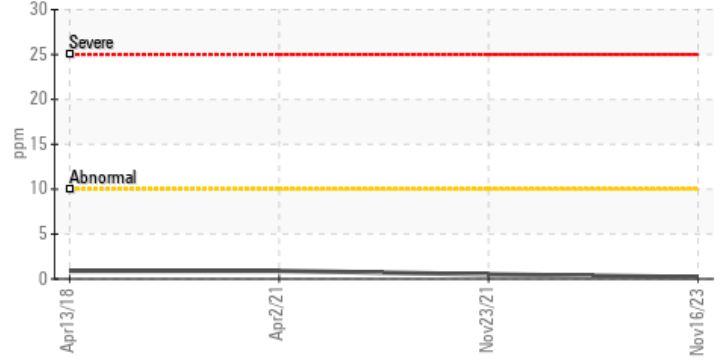
Lead (ppm)



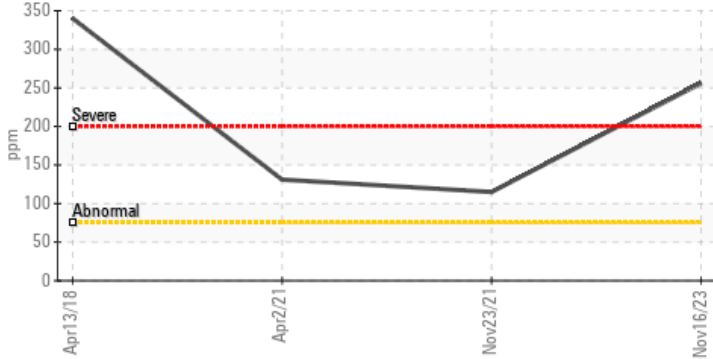
Aluminum (ppm)



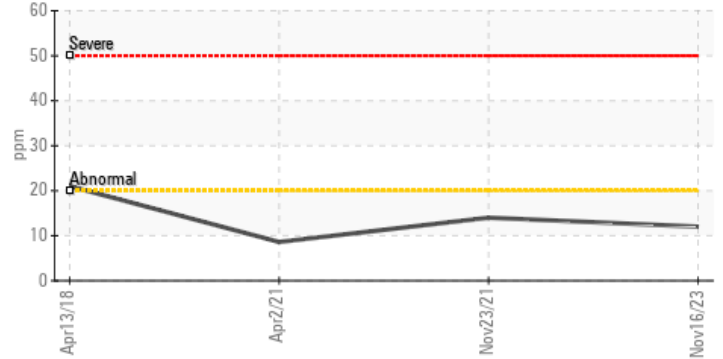
Chromium (ppm)



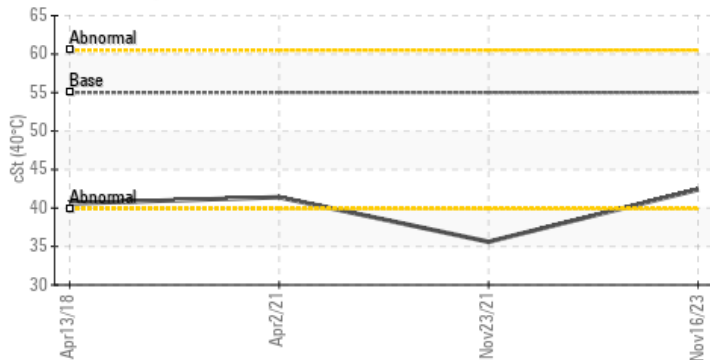
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

