



CONSTRUCTION EQUIPMENT

687121 APTIM VOLVO A35G 340236 - BRAKE COOLING SYSTEM



Sample No: VCP444156
Oil Type: VOLVO WB 102
Job No: 687121 APTIM



SAMPLE INFORMATION

Sample Number	VCP444156	VCP444135	VCP424416	VCP353529
Sample Date	12 Mar 2024	26 Feb 2024	25 May 2023	31 Aug 2022
Machine Hours	8945	7992	6888	5673
Oil Hours	3500	3000	4000	1600
Oil Changed	Not Chngd	Changed	Changed	Not Chngd
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	43.4	43.4	41.6	41.0
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	13	13	13	16
Sodium	ppm	4	4	0	3
Potassium	ppm	0	<1	2	2

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. 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.



WEAR METALS

Iron	ppm	56	30	32	30
Copper	ppm	352	270	478	589
Lead	ppm	6	1	1	2
Tin	ppm	<1	<1	0	0
Aluminum	ppm	1	2	0	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	2	<1	<1	0
Nickel	ppm	6	4	6	3
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	3	2	2	2
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	3345	3366	3416	3906
Magnesium	ppm	24	11	5	6
Zinc	ppm	1460	1405	1409	1601
Phosphorus	ppm	1431	1294	1306	1451
Barium	ppm	<1	0	0	2
Boron	ppm	121	107	112	135

Depot: VOLVO0093
Unique No: 10976320
Signed: Don Baldrige
Report Date: 15 Apr 2024

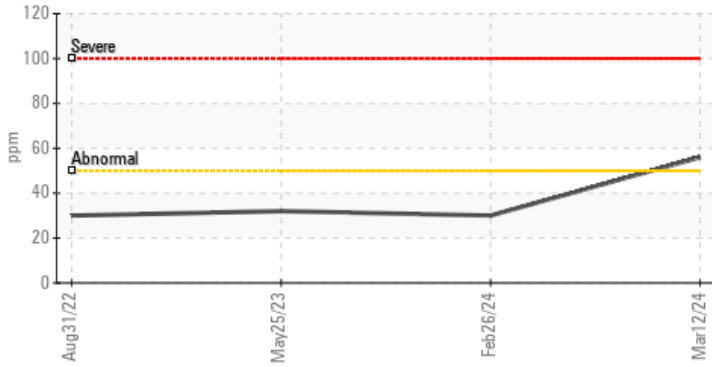


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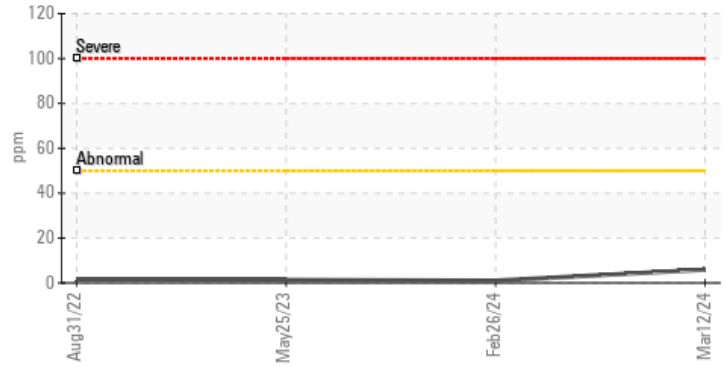


GRAPHS

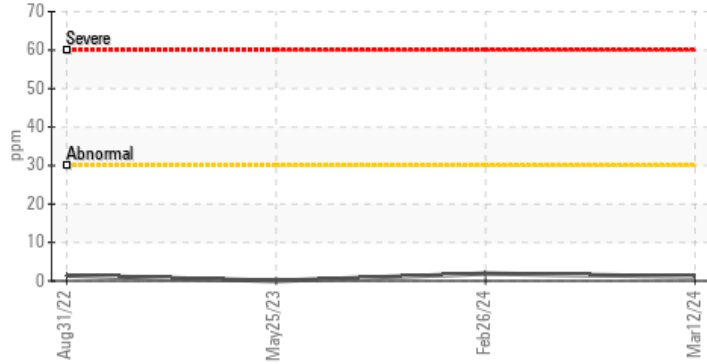
▲ Iron (ppm)



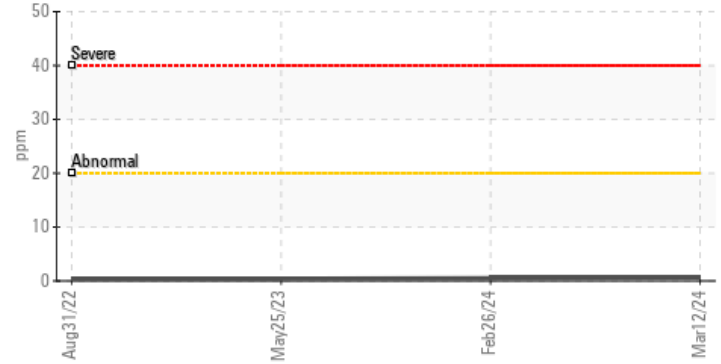
Lead (ppm)



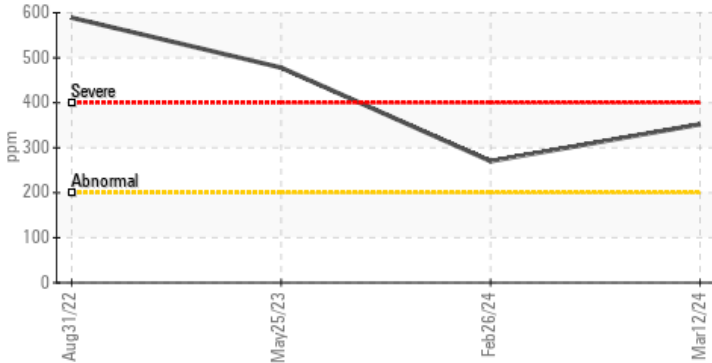
Aluminum (ppm)



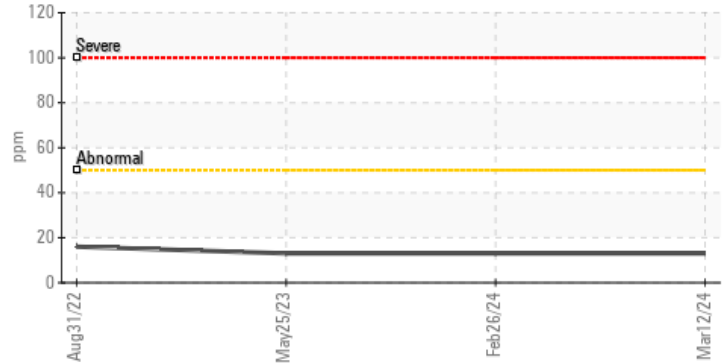
Chromium (ppm)



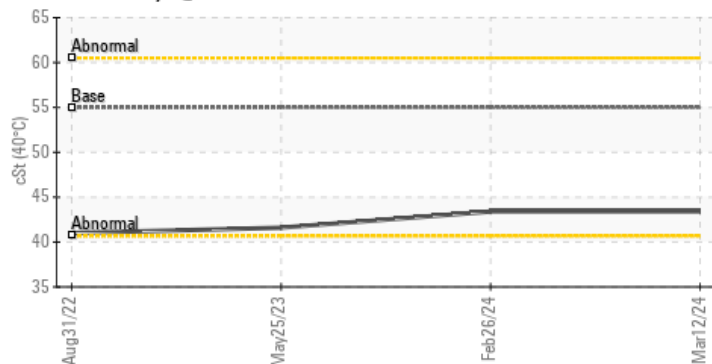
▲ Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

