



CONSTRUCTION EQUIPMENT

634367 VOLVO A40G 352842 - BRAKE COOLING SYSTEM



Sample No: VCP440793
Oil Type: VOLVO WB 102
Job No: 634367



SAMPLE INFORMATION

Sample Number	VCP440793	VCP424451	VCP386672	VCP359336
Sample Date	27 Nov 2023	11 May 2023	13 Oct 2022	19 Apr 2022
Machine Hours	4010	3070	1984	1024
Oil Hours	4010	3070	1984	1024
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
 TAMPA, FL
 US 33619
 Contact: PM Services
 PMServices@ripaconstruction.com
 T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	43.2	45.5	40.6	40.4
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	19	19	17
Sodium	ppm	4	10	8	11
Potassium	ppm	0	0	2	<1

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	13	16	18	11
Copper	ppm	83	194	181	80
Lead	ppm	<1	0	<1	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	<1	0	<1	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	<1	<1	<1	<1
Nickel	ppm	1	5	3	4
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	1	1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	3747	3445	3681	3890
Magnesium	ppm	14	10	9	13
Zinc	ppm	1526	1550	1541	1614
Phosphorus	ppm	1319	1322	1296	1352
Barium	ppm	0	0	1	0
Boron	ppm	120	117	117	115

Depot: RIPTAM
Unique No: 10834499
Signed: Sean Felton
Report Date: 18 Jan 2024

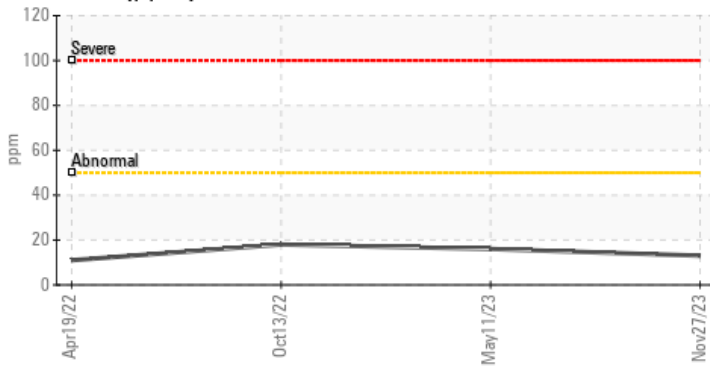


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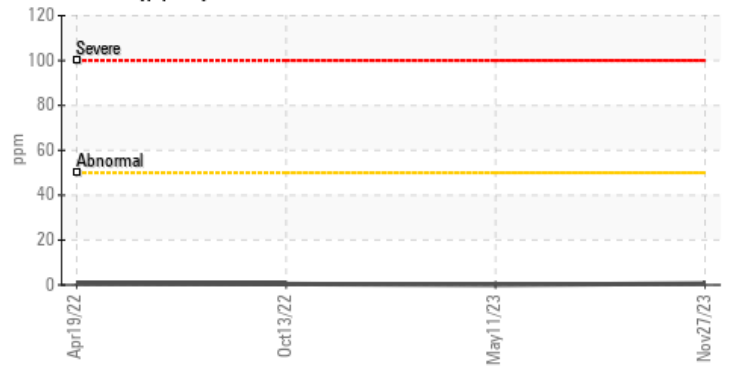


GRAPHS

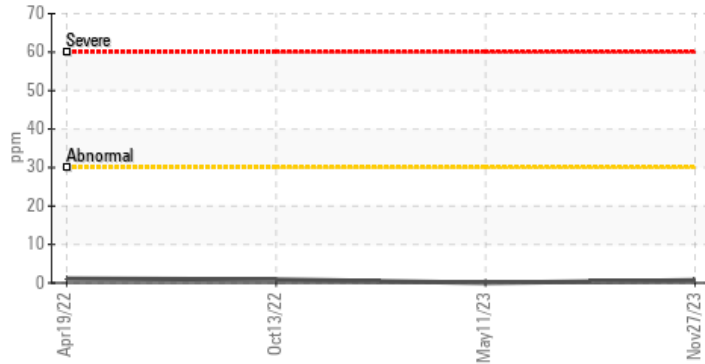
Iron (ppm)



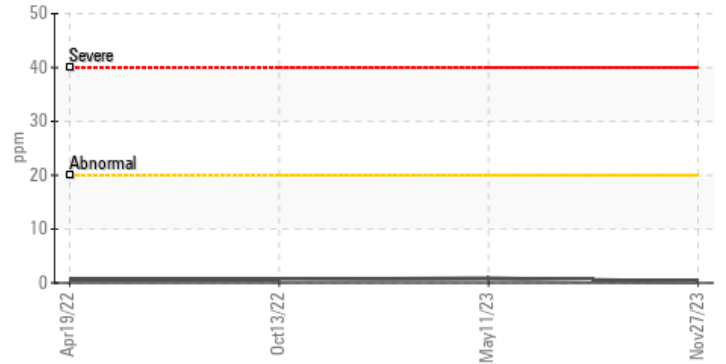
Lead (ppm)



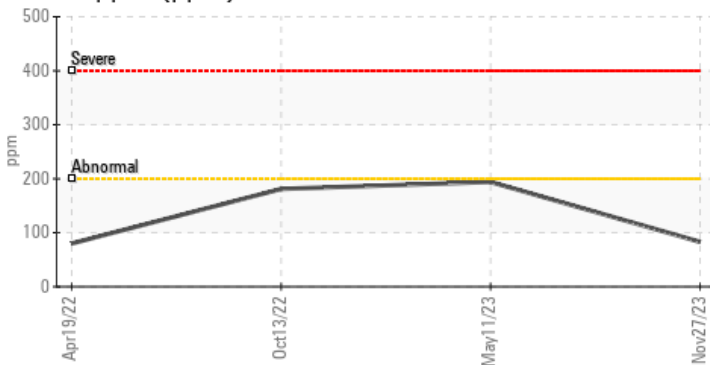
Aluminum (ppm)



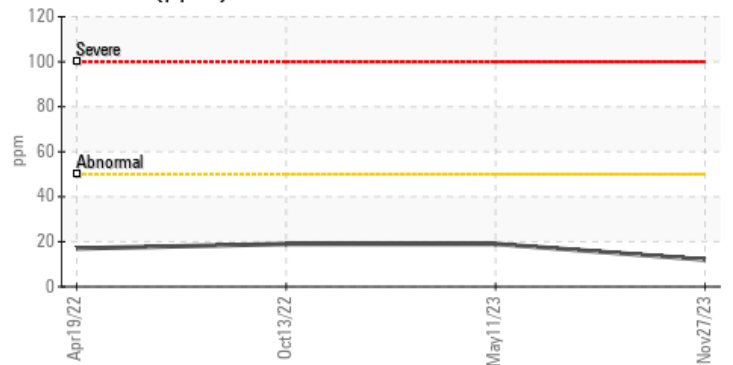
Chromium (ppm)



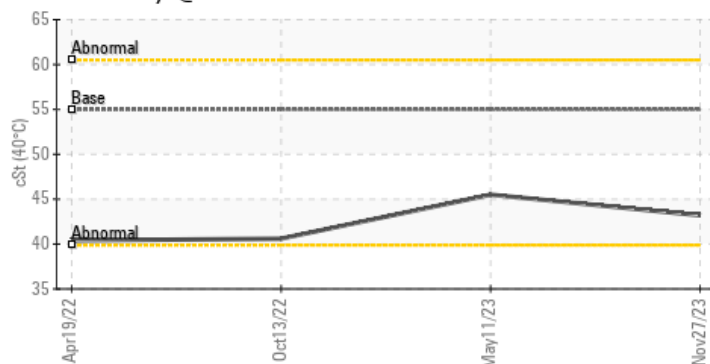
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

