



CONSTRUCTION EQUIPMENT

715594 VOLVO A40G 352851 - BRAKE COOLING SYSTEM



Sample No: VCP451474
Oil Type: VOLVO WB 102
Job No: 715594



SAMPLE INFORMATION

Sample Number	VCP451474	VCP433364	VCP411353	VCP385559
Sample Date	31 May 2024	06 Nov 2023	12 Apr 2023	07 Oct 2022
Machine Hours	5237	4099	3090	2036
Oil Hours	1037	4099	3090	1500
Oil Changed	Not Chngd	Changed	Not Chngd	Not Chngd
Sample Status	NORMAL	ABNORMAL	ABNORMAL	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	48.1	43.1	40.6	43.2
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	10	17	17	19
Sodium	ppm	2	13	8	5
Potassium	ppm	2	1	0	2

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	11	21	15	15
Copper	ppm	123	▲ 481	▲ 211	151
Lead	ppm	0	8	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	2	2	1	2
Chromium	ppm	<1	2	<1	<1
Molybdenum	ppm	<1	1	2	2
Nickel	ppm	1	5	5	2
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	2	2	1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	3122	3446	3676	3747
Magnesium	ppm	14	19	17	16
Zinc	ppm	1349	1437	1544	1588
Phosphorus	ppm	1213	1213	1283	1268
Barium	ppm	0	0	0	0
Boron	ppm	126	109	133	128

Depot: RIPTAM
Unique No: 11127048
Signed: Sean Felton
Report Date: 18 Jul 2024

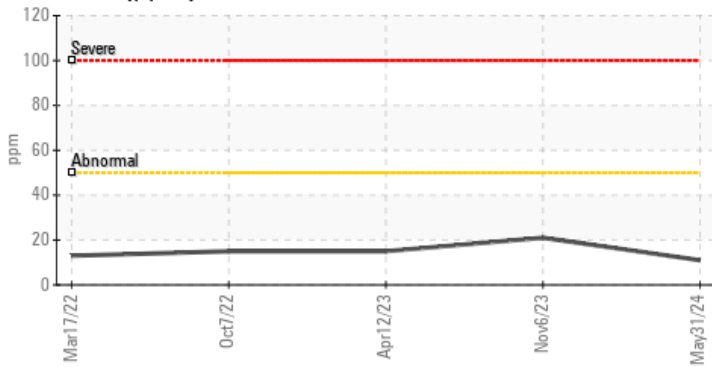


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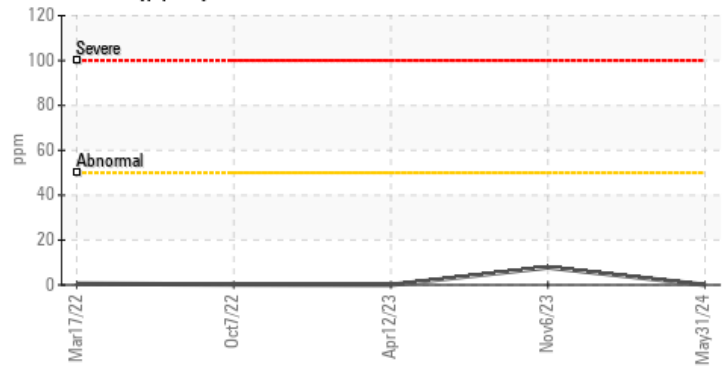


GRAPHS

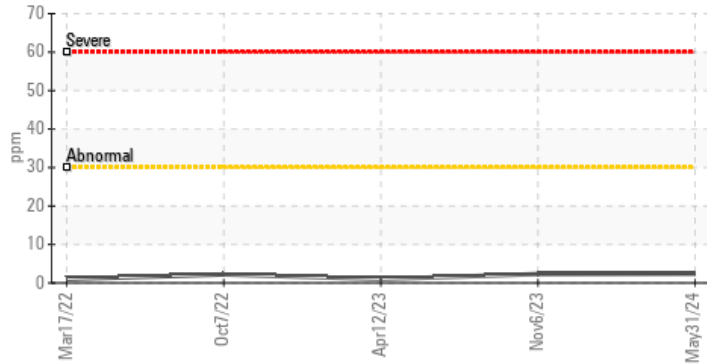
Iron (ppm)



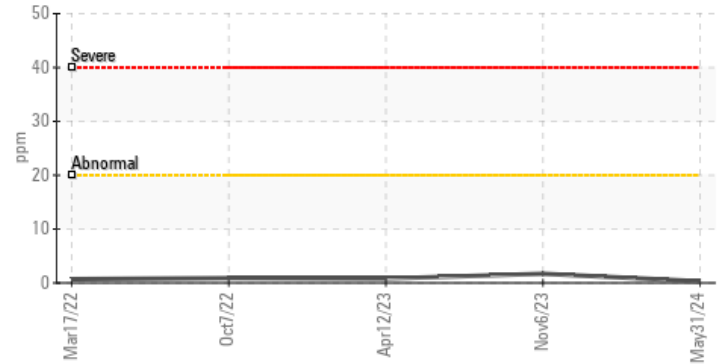
Lead (ppm)



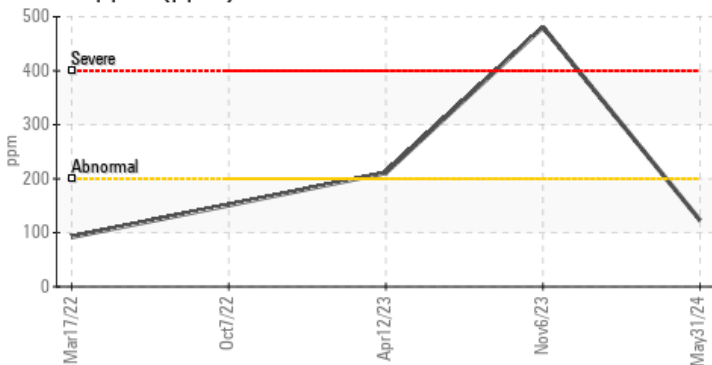
Aluminum (ppm)



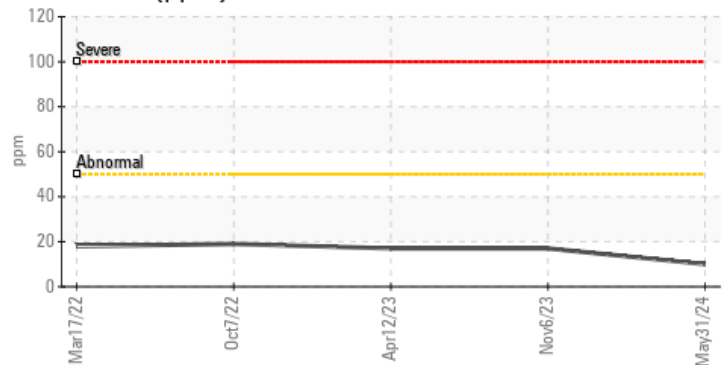
Chromium (ppm)



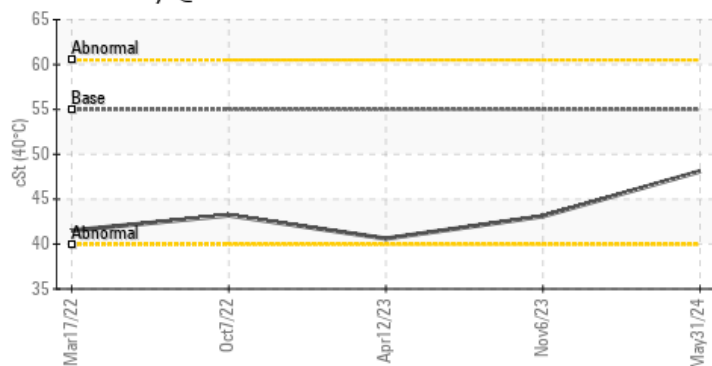
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

