



CONSTRUCTION EQUIPMENT

VOLVO A40G 342176 - BRAKE COOLING SYSTEM



Sample No: VCP417013
Oil Type: VOLVO WB 102
Job No:



SAMPLE INFORMATION

Sample Number	VCP417013	VCP301360	VCP271177	---
Sample Date	01 Aug 2023	28 Dec 2020	14 Apr 2020	---
Machine Hours	7664	5299	4225	---
Oil Hours	0	1000	4225	---
Oil Changed	N/A	Not Changd	Changed	---
Sample Status	ABNORMAL	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	42.7	40.7	40.6	---
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CONTAMINATION

Silicon	ppm	12	17	16	---
Sodium	ppm	0	8	5	---
Potassium	ppm	2	4	<1	---



WEAR METALS

Iron	ppm	15	18	18	---
Copper	ppm	140	135	263	---
Lead	ppm	<1	3	<1	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	2	2	<1	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	<1	<1	0	---
Nickel	ppm	1	1	8	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	<1	0	---
Manganese	ppm	<1	<1	1	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	3982	4031	3632	---
Magnesium	ppm	17	16	6	---
Zinc	ppm	1581	1657	1428	---
Phosphorus	ppm	1294	1321	1185	---
Barium	ppm	2	0	0	---
Boron	ppm	135	116	91	---

Diagnosis

The filter change at the time of sampling has been noted. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. High concentration of visible metal present. All 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: RIPTAM
Unique No: 10607518
Signed: Don Baldrige
Report Date: 21 Aug 2023

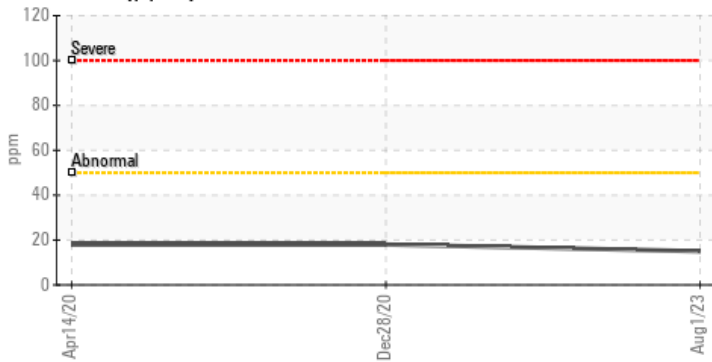


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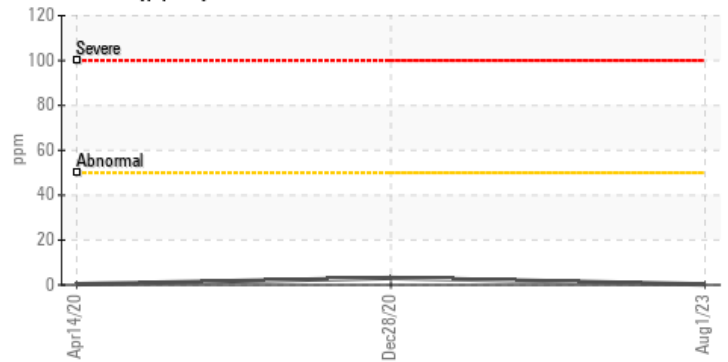


GRAPHS

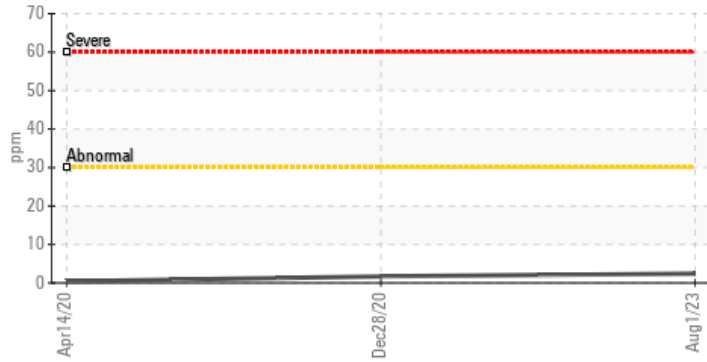
Iron (ppm)



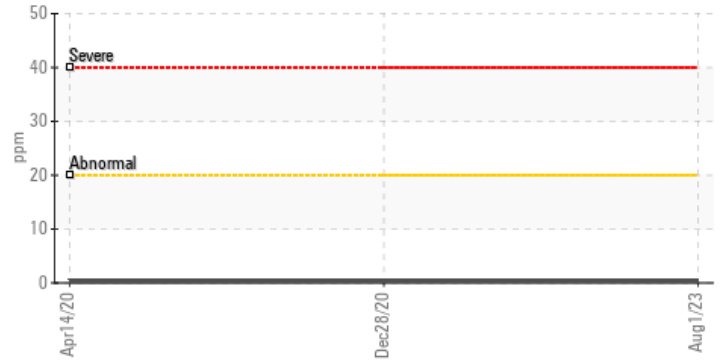
Lead (ppm)



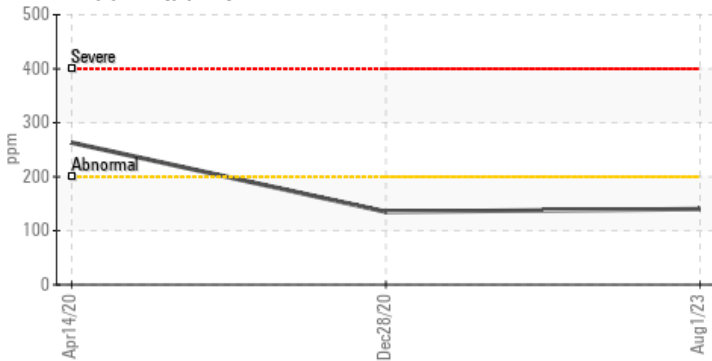
Aluminum (ppm)



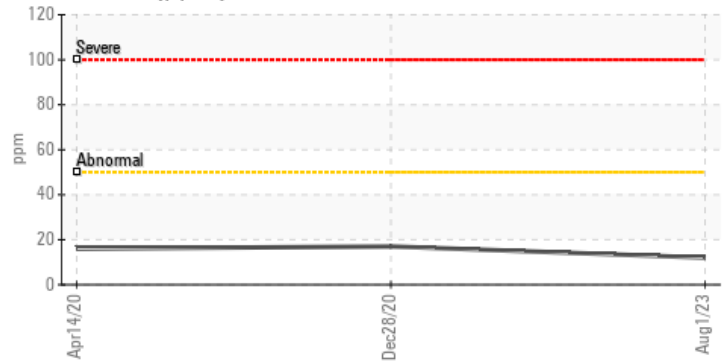
Chromium (ppm)



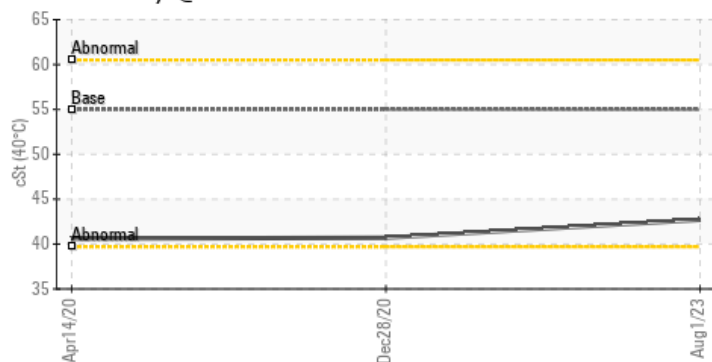
Copper (ppm)



Silicon (ppm)



Viscosity @ 40°C



Additives

