



CONSTRUCTION EQUIPMENT

622085 VOLVO A40G 352851 - BRAKE COOLING SYSTEM



Sample No: VCP433364
Oil Type: VOLVO WB 102
Job No: 622085



SAMPLE INFORMATION

Sample Number	VCP433364	VCP411353	VCP385559	VCP362325
Sample Date	06 Nov 2023	12 Apr 2023	07 Oct 2022	17 Mar 2022
Machine Hours	4099	3090	2036	1095
Oil Hours	4099	3090	1500	1095
Oil Changed	Changed	Not Changd	Not Changd	Not Changd
Sample Status	ABNORMAL	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	43.1	40.6	43.2	41.5
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	17	17	19	18
Sodium	ppm	13	8	5	10
Potassium	ppm	1	0	2	0



WEAR METALS

Iron	ppm	21	15	15	13
Copper	ppm	481	211	151	92
Lead	ppm	8	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	1	2	1
Chromium	ppm	2	<1	<1	<1
Molybdenum	ppm	1	2	2	<1
Nickel	ppm	5	5	2	4
Titanium	ppm	<1	0	<1	0
Silver	ppm	0	0	0	<1
Manganese	ppm	2	2	1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	3446	3676	3747	3816
Magnesium	ppm	19	17	16	11
Zinc	ppm	1437	1544	1588	1521
Phosphorus	ppm	1213	1283	1268	1280
Barium	ppm	0	0	0	0
Boron	ppm	109	133	128	146

Diagnosis

The fluid change at the time of sampling has been noted. No corrective action is recommended at this time. 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: RIPTAM
Unique No: 10765268
Signed: Don Baldrige
Report Date: 03 Dec 2023



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GRAPHS

