



CONSTRUCTION EQUIPMENT

VOLVO L110H 631231 - FRONT AXLE



Sample No: VCP435650
Oil Type: VOLVO WB 102
Job No:



SAMPLE INFORMATION

Sample Number	VCP435650	VCP420256	VCP376225	VCP332720
Sample Date	08 Nov 2023	28 Apr 2023	15 Sep 2022	22 Feb 2022
Machine Hours	12029	10851	9792	8577
Oil Hours	0	2000	1700	2000
Oil Changed	Not Chngd	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
rturner@ripatampa.com
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OIL CONDITION

Visc @ 40°C	cSt	43.08	43.5	43.9	40.8
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	12	17	16	24
Sodium	ppm	3	5	7	7
Potassium	ppm	0	2	<1	0

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	24	125	118	▲ 641
Copper	ppm	<1	0	1	2
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	<1	2	4	4
Chromium	ppm	0	2	2	9
Molybdenum	ppm	<1	2	2	14
Nickel	ppm	0	1	1	0
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	4	3	19
Vanadium	ppm	0	0	1	0



ADDITIVES

Calcium	ppm	4060	4103	3931	4167
Magnesium	ppm	21	14	14	23
Zinc	ppm	1550	1629	1532	1550
Phosphorus	ppm	1246	1280	1262	1411
Barium	ppm	0	0	0	0
Boron	ppm	132	141	119	127

Depot: RIPTAM
Unique No: 10776636
Signed: Wes Davis
Report Date: 11 Dec 2023



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GRAPHS

