



CONSTRUCTION EQUIPMENT

568171 ATLAS VOLVO L90H 623733 - FRONT AXLE



Sample No: VCP417243
Oil Type: VOLVO WB 102
Job No: 568171 ATLAS



SAMPLE INFORMATION

Sample Number	VCP417243	VCP393592	VCP357376	VCP321512
Sample Date	29 Jun 2023	28 Mar 2023	14 Apr 2022	07 Jul 2021
Machine Hours	6673	11120	9196	7801
Oil Hours	0	2000	2000	1800
Oil Changed	Changed	Not Changd	Changed	Not Changd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 40°C	cSt	▲ 33.3	■ 58.5	■ 46.9	■ 47.2
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CONTAMINATION

Silicon	ppm	■ 13	■ 15	■ 10	■ 7
Sodium	ppm	■ 3	■ 4	■ 6	■ 5
Potassium	ppm	■ 2	■ 1	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 196	■ 207	■ 108	■ 77
Copper	ppm	■ 1	■ 1	■ 2	■ 1
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ 1	■ <1
Chromium	ppm	■ 3	■ 3	■ 2	■ 1
Molybdenum	ppm	■ 3	■ 4	■ 4	■ 3
Nickel	ppm	■ <1	■ <1	■ 1	■ 0
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	<1	0
Manganese	ppm	■ 7	■ 3	■ 2	■ 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	▲ 661	■ 3327	■ 3233	■ 2945
Magnesium	ppm	■ 10	■ 25	■ 28	■ 20
Zinc	ppm	▲ 287	■ 1364	■ 1223	■ 1196
Phosphorus	ppm	▲ 415	■ 1474	■ 1376	■ 1237
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 106	■ 158	■ 157	■ 152

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO0096
Unique No: 10548319
Signed: Don Baldrige
Report Date: 10 Jul 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

