



CONSTRUCTION EQUIPMENT

566012 VOLVO L110H 632272 - REAR AXLE



Sample No: VCP398025
Oil Type: VOLVO WB 102
Job No: 566012



SAMPLE INFORMATION

Sample Number	VCP398025	VCP386604	---	---
Sample Date	20 Jun 2023	30 Nov 2022	---	---
Machine Hours	2490	1193	---	---
Oil Hours	1490	1500	---	---
Oil Changed	Changed	Not Chngd	---	---
Sample Status	SEVERE	NORMAL	---	---

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
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T:
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OIL CONDITION

Visc @ 40°C	cSt	▲ 1109	■ 40.6	---	---
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CONTAMINATION

Water	%	● 36.2	---	---	---
Silicon	ppm	● 1015	■ 27	---	---
Sodium	ppm	■ <1	■ 10	---	---
Potassium	ppm	■ 9	■ 0	---	---



WEAR METALS

Iron	ppm	● 2540	■ 164	---	---
Copper	ppm	■ 5	■ <1	---	---
Lead	ppm	■ 1	■ <1	---	---
Tin	ppm	■ 5	■ <1	---	---
Aluminum	ppm	▲ 198	■ 1	---	---
Chromium	ppm	▲ 34	■ 5	---	---
Molybdenum	ppm	■ 4	■ 10	---	---
Nickel	ppm	▲ 18	■ 0	---	---
Titanium	ppm	9	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	▲ 22	■ 11	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	▲ 1673	■ 4179	---	---
Magnesium	ppm	▲ 79	■ 13	---	---
Zinc	ppm	▲ 844	■ 1594	---	---
Phosphorus	ppm	▲ 729	■ 1304	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	▲ 20	■ 145	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a high concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

Depot: RIPTAM
Unique No: 10551190
Signed: Jonathan Hester
Report Date: 13 Jul 2023



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VOLVO GRAPHS

