



CONSTRUCTION EQUIPMENT

331793 VOLVO L90H 624034 - REAR AXLE



Sample No: VCP336946
Oil Type: VOLVO WB 102
Job No: 331793



SAMPLE INFORMATION

Sample Number	VCP336946	VCP301524	VCP265178	VCP236518
Sample Date	16 Nov 2021	08 Feb 2021	05 Dec 2019	25 Apr 2019
Machine Hours	4308	3165	2043	2250
Oil Hours	0	3165	2043	0
Oil Changed	Changed	Not Changd	Not Changd	Changed
Sample Status	SEVERE	SEVERE	NORMAL	NORMAL

RIPA AND ASSOCIATES

10149 FISHER AVENUE
TAMPA, FL
US 33619
Contact: ROBERT TURNER
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F:



OIL CONDITION

Visc @ 40°C	cSt	41.7	43.3	40.1	41.7
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 116	105	13	13
Sodium	ppm	■ <1	5	6	4
Potassium	ppm	■ 2	<1	2	0

Diagnosis

We advise that you check all areas where dirt can enter the system. 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. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 905	777	20	145
Copper	ppm	■ 100	97	0	108
Lead	ppm	■ <1	1	3	2
Tin	ppm	■ 10	10	0	9
Aluminum	ppm	● 10	9	<1	2
Chromium	ppm	▲ 15	14	<1	6
Molybdenum	ppm	■ 5	5	<1	3
Nickel	ppm	■ 6	6	0	2
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	<1	0	<1
Manganese	ppm	■ 16	15	2	11
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	■ 4243	4353	4145	3947
Magnesium	ppm	■ 13	15	19	11
Zinc	ppm	■ 1584	1640	1547	1608
Phosphorus	ppm	■ 1377	1416	1190	1313
Barium	ppm	■ 0	0	0	0
Boron	ppm	■ 140	130	115	116

Depot: RIPTAM
Unique No: 9751371
Signed: Don Baldrige
Report Date: 24 Nov 2021



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GRAPHS

