



CONSTRUCTION EQUIPMENT

RA47 VOLVO A40G 352354 - REAR AXLE



Sample No: VCP435380
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: RA47



SAMPLE INFORMATION

Sample Number	VCP435380	VCP374229	VCP320591	VCP317429
Sample Date	16 Nov 2023	13 May 2022	02 Feb 2022	27 Aug 2021
Machine Hours	5488	2872	2226	1496
Oil Hours	500	500	1000	500
Oil Changed	Not Chngd	Not Chngd	Changed	Not Chngd
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 40°C	cSt	▲ 295	■ 143	■ 137	■ 138
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	■ <1	■ 2	■ 3	■ 3
Sodium	ppm	■ <1	■ <1	■ 0	■ <1
Potassium	ppm	■ 0	■ 1	■ 0	■ 11

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 oil viscosity is higher than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 10	■ 68	■ 80	■ 24
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ 2
Tin	ppm	■ 0	■ 0	■ 0	■ 0
Aluminum	ppm	■ 0	■ <1	■ 0	■ 0
Chromium	ppm	■ 0	■ 1	■ 2	■ <1
Molybdenum	ppm	■ 0	■ <1	■ <1	■ 0
Nickel	ppm	■ 0	■ 0	■ <1	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	<1	0	0
Manganese	ppm	■ 0	■ 5	■ 6	■ 2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 46	■ 23	■ 12	■ 14
Magnesium	ppm	■ 0	■ 0	■ 2	■ <1
Zinc	ppm	■ 20	■ 11	■ 3	8
Phosphorus	ppm	■ 890	■ 1069	■ 1186	■ 1016
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 154	■ 184	■ 218	■ 207

Depot: VOLVO0080
Unique No: 10753504
Signed: Don Baldrige
Report Date: 24 Nov 2023



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VOLVO GRAPHS

