



CONSTRUCTION EQUIPMENT

SWA534849-10 VOLVO A40G 342112 - BOGIE/CENTER AXLE



Sample No: VCP438777
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: SWA534849-10



SAMPLE INFORMATION

Sample Number	VCP438777	VCP0007898	VCP395008	VCP0006349
Sample Date	27 Apr 2024	29 Mar 2024	03 Apr 2023	07 Feb 2023
Machine Hours	7700	7550	7555	7550
Oil Hours	0	7550	0	0
Oil Changed	N/A	N/A	Not Changd	N/A
Sample Status	ABNORMAL	SEVERE	ATTENTION	ABNORMAL

ALTA EQUIPMENT COMPANY
 8750 PHILIPS HWY
 JACKSONVILLE, FL
 US 32256
 Contact: SHAWN NORTHCRAFT
 shawn.northcraft@altg.com
 T: (904)737-6000
 F: (904)737-1260



OIL CONDITION

Visc @ 40°C	cSt	303	297	92.6	309
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 192	▲ 291	■ 1	▲ 121
Sodium	ppm	■ <1	■ 2	■ <1	■ <1
Potassium	ppm	■ 2	■ <1	■ <1	■ 0

Diagnosis

We advise that you check all areas where dirt can enter the system. Resample at the next service interval to monitor. All component wear rates are normal. 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	■ 613	▲ 1013	■ <1	■ 347
Copper	ppm	■ 17	■ 10	■ 0	■ 5
Lead	ppm	■ 0	■ 0	■ 0	■ 0
Tin	ppm	■ 0	■ <1	■ 0	■ 0
Aluminum	ppm	● 16	▲ 18	■ 0	● 14
Chromium	ppm	■ 7	■ 11	■ 0	■ 4
Molybdenum	ppm	■ 9	■ 7	■ <1	■ 6
Nickel	ppm	■ 3	■ 5	■ 0	■ 2
Titanium	ppm	2	2	0	1
Silver	ppm	0	0	0	0
Manganese	ppm	■ 7	■ 12	■ 0	■ 5
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	■ 144	■ 143	■ 10	■ 85
Magnesium	ppm	■ 33	■ 27	■ 2	28
Zinc	ppm	■ 94	■ 72	■ 6	■ 44
Phosphorus	ppm	■ 1053	■ 1088	■ 1614	773
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 209	■ 179	■ 255	■ 159

Depot: VOLVO0092
Unique No: 11006748
Signed: Doug Bogart
Report Date: 02 May 2024



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VOLVO GRAPHS

