



CONSTRUCTION EQUIPMENT

463363-10 WATERFRONT VOLVO A40G 342355 - REAR AXLE



Sample No: VCP449053
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 463363-10 WATERFRONT



SAMPLE INFORMATION

Sample Number	VCP449053	VCP302587	VCP282148	---
Sample Date	02 Jan 2024	21 Jan 2021	03 Sep 2020	---
Machine Hours	7884	5098	4547	---
Oil Hours	0	0	0	---
Oil Changed	Not Chngd	Not Chngd	Changed	---
Sample Status	ABNORMAL	NORMAL	ABNORMAL	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 40°C	cSt	271	120	52.4	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	▲ 112	20	▲ 148	---
Sodium	ppm	3	2	6	---
Potassium	ppm	<1	1	7	---

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	423	135	546	---
Copper	ppm	4	<1	4	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	0	0	---
Aluminum	ppm	▲ 35	4	▲ 53	---
Chromium	ppm	5	2	8	---
Molybdenum	ppm	6	4	6	---
Nickel	ppm	2	3	2	---
Titanium	ppm	2	<1	2	---
Silver	ppm	0	0	0	---
Manganese	ppm	4	3	23	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	92	138	33	---
Magnesium	ppm	24	4	6	---
Zinc	ppm	75	64	11	---
Phosphorus	ppm	1012	981	2480	---
Barium	ppm	0	0	0	---
Boron	ppm	187	160	177	---

Depot: VOLVO0093
Unique No: 10845500
Signed: Sean Felton
Report Date: 25 Jan 2024



CONSTRUCTION EQUIPMENT



GRAPHS

