



CONSTRUCTION EQUIPMENT

VOLVO A40G 352489 - BOGIE/CENTER AXLE



Sample No: VCP436204
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No:



SAMPLE INFORMATION

Sample Number	VCP436204	VCP344041	---	---
Sample Date	13 Dec 2023	04 Nov 2021	---	---
Machine Hours	6270	2129	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	N/A	---	---
Sample Status	ABNORMAL	ATTENTION	---	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 43.5	▲ 51.7	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	▲ 77	■ 24	---	---
Sodium	ppm	■ 6	■ 1	---	---
Potassium	ppm	■ <1	■ 3	---	---



WEAR METALS

Iron	ppm	■ 231	■ 458	---	---
Copper	ppm	■ 4	■ 8	---	---
Lead	ppm	■ 1	■ 0	---	---
Tin	ppm	■ 0	■ <1	---	---
Aluminum	ppm	■ 10	■ 11	---	---
Chromium	ppm	■ 3	■ 6	---	---
Molybdenum	ppm	■ 4	■ 7	---	---
Nickel	ppm	■ 1	■ 2	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	0	1	---	---
Manganese	ppm	■ 4	■ 18	---	---
Vanadium	ppm	<1	<1	---	---



ADDITIVES

Calcium	ppm	▲ 3513	■ 104	---	---
Magnesium	ppm	■ 11	■ 5	---	---
Zinc	ppm	▲ 1339	■ 22	---	---
Phosphorus	ppm	■ 1144	■ 2709	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 158	■ 148	---	---

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Elemental level of silicon (Si) above normal indicating ingress of seal material. The oil viscosity is lower than normal. Additive levels indicate the addition of a different brand, or type of oil. Confirm oil type.

Depot: VOLVO0090
Unique No: 10796045
Signed: Jonathan Hester
Report Date: 22 Dec 2023



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GRAPHS

