



CONSTRUCTION EQUIPMENT

5520DR KINSLEY VOLVO A40E 13563 - BOGIE/CENTER AXLE



Sample No: VCP431944
Oil Type: VOLVO PREMIUM GEAR OIL 85W-140 GL-5
Job No: 5520DR KINSLEY



SAMPLE INFORMATION

Sample Number	VCP431944	VCP116618	---	---
Sample Date	03 May 2024	21 Jun 2013	---	---
Machine Hours	13358	2149	---	---
Oil Hours	1000	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

HIGHWAY EQUIPMENT & SUPPLY CO
 PO BOX 127
 DRUMS, PA
 US 18222
 Contact: JOSEPH GLOWACKI
 joe@hwyequip.com
 T: (570)788-1127
 F: (570)708-2933



OIL CONDITION

Visc @ 40°C	cSt	274	293.0	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	8	2	---	---
Sodium	ppm	<1	<1	---	---
Potassium	ppm	0	3	---	---



WEAR METALS

Iron	ppm	129	73	---	---
Copper	ppm	0	<1	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	0	0	---	---
Aluminum	ppm	2	<1	---	---
Chromium	ppm	<1	1	---	---
Molybdenum	ppm	2	2	---	---
Nickel	ppm	0	<1	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	2	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	78	63	---	---
Magnesium	ppm	12	0	---	---
Zinc	ppm	63	49	---	---
Phosphorus	ppm	681	969	---	---
Barium	ppm	<1	0	---	---
Boron	ppm	58	139	---	---

Diagnosis

We suspect abnormal metal contamination may be due to sampling method. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. Moderate concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the component. The condition of the oil is acceptable for the time in service.

Depot: VOLVO0022
Unique No: 11020318
Signed: Angela Borella
Report Date: 13 May 2024



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GRAPHS

