



CONSTRUCTION EQUIPMENT

SW1027987 DIAMOND VOLVO A40D 60013 - BOGIE/CENTER LEFT FINAL DRIVE



Sample No: VCP369185
Oil Type: GEAR OIL SAE 80W90
Job No: SW1027987 DIAMOND



SAMPLE INFORMATION

Sample Number	VCP369185	VC043183	VC016267	---
Sample Date	20 Dec 2023	14 Mar 2003	20 Aug 2002	---
Machine Hours	4671	2053	1379	---
Oil Hours	0	674	1379	---
Oil Changed	Changed	Not Changd	Changed	---
Sample Status	ATTENTION	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 295	▲ 140.7	136.6	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	■ 36	■ 14	■ 15	---
Sodium	ppm	■ 5	■ 2	■ 3	---
Potassium	ppm	■ 12	■ 0	■ 16	---

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. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.



WEAR METALS

Iron	ppm	■ 633	▲ 661	■ 438	---
Copper	ppm	■ 35	■ 27	■ 21	---
Lead	ppm	■ 0	■ <1	■ 2	---
Tin	ppm	■ <1	■ 0	■ 0	---
Aluminum	ppm	■ 6	■ <1	■ 1	---
Chromium	ppm	■ 9	■ 10	■ 8	---
Molybdenum	ppm	■ 5	0	0	---
Nickel	ppm	■ 3	■ 5	■ 5	---
Titanium	ppm	<1	■ 0	■ <1	---
Silver	ppm	0	■ 0	■ 0	---
Manganese	ppm	■ 12	16	12	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 188	24	28	---
Magnesium	ppm	■ 21	2	1	---
Zinc	ppm	■ 83	15	21	---
Phosphorus	ppm	■ 962	638	644	---
Barium	ppm	■ 0	<1	1	---
Boron	ppm	■ 128	1	0	---

Depot: VOLVO6174
Unique No: 10808692
Signed: Don Baldrige
Report Date: 02 Jan 2024



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GRAPHS

