



CONSTRUCTION EQUIPMENT

SW1027987 DIAMOND VOLVO A40D 60013 - BOGIE/CENTER AXLE



Sample No: VCP369188
Oil Type: GEAR OIL SAE 80W90
Job No: SW1027987 DIAMOND



SAMPLE INFORMATION

Sample Number	VCP369188	VC043185	VC016284	---
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 Chngd	Changed	---
Sample Status	ABNORMAL	ABNORMAL	NORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	▲ 301	■ 393.7	137.5	---
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CONTAMINATION

Water	%	NEG	NEG	NEG	---
Silicon	ppm	■ 38	■ 15	■ 21	---
Sodium	ppm	■ 5	■ 2	■ 3	---
Potassium	ppm	■ 12	■ 0	■ 17	---

Diagnosis

The oil change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Gear wear is indicated. There is no indication of any contamination in the oil. The oil viscosity is higher than normal. Confirm oil type.



WEAR METALS

Iron	ppm	▲ 652	▲ 684	■ 438	---
Copper	ppm	■ 35	■ 28	■ 16	---
Lead	ppm	■ 0	■ <1	■ <1	---
Tin	ppm	■ <1	■ 0	■ 0	---
Aluminum	ppm	■ 6	■ <1	■ 3	---
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	■ 192	16	29	---
Magnesium	ppm	■ 21	2	2	---
Zinc	ppm	■ 83	14	19	---
Phosphorus	ppm	■ 983	651	648	---
Barium	ppm	■ 0	<1	<1	---
Boron	ppm	■ 130	2	0	---

Depot: VOLVO6174
Unique No: 10808688
Signed: Don Baldrige
Report Date: 02 Jan 2024



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GRAPHS

