



CONSTRUCTION EQUIPMENT

SW1027980 DIAMOND VOLVO A40D 12032 - BOGIE/CENTER AXLE



Sample No: VCP415121
Oil Type: GEAR OIL SAE 80W90
Job No: SW1027980 DIAMOND



SAMPLE INFORMATION

Sample Number	VCP415121	---	---	---
Sample Date	03 Jan 2024	---	---	---
Machine Hours	6905	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ARNOLD MACHINERY COMPANY
4323 EAST WINSLOW AVENUE
PHOENIX, AZ
US 85040
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OIL CONDITION

Visc @ 40°C	cSt	█ 149	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	█ 17	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 25	---	---	---

Diagnosis

The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of metal. Resample at the next service interval to monitor. High concentration of visible metal present. All component wear rates are normal. There is no indication of any contamination in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	█ 298	---	---	---
Copper	ppm	█ 28	---	---	---
Lead	ppm	█ 0	---	---	---
Tin	ppm	█ <1	---	---	---
Aluminum	ppm	█ 2	---	---	---
Chromium	ppm	█ 2	---	---	---
Molybdenum	ppm	█ 0	---	---	---
Nickel	ppm	█ <1	---	---	---
Titanium	ppm	<1	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 4	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 84	---	---	---
Magnesium	ppm	█ 8	---	---	---
Zinc	ppm	█ 22	---	---	---
Phosphorus	ppm	█ 1007	---	---	---
Barium	ppm	█ 36	---	---	---
Boron	ppm	█ 192	---	---	---

Depot: VOLVO6174
Unique No: 10842662
Signed: Don Baldrige
Report Date: 23 Jan 2024



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GRAPHS

