



CONSTRUCTION EQUIPMENT

703489 IHFT SENNEBOGEN 830R 2296 - REAR LEFT FINAL DRIVE



Sample No: VCP454549
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 703489 IHFT



SAMPLE INFORMATION

Sample Number	VCP454549	VCP431176	VCP399394	---
Sample Date	24 May 2024	05 Dec 2023	09 Feb 2023	---
Machine Hours	3753	2444	619	---
Oil Hours	1000	1000	2000	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	ABNORMAL	SEVERE	ABNORMAL	---

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 56195 PONTIAC TRAIL
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OIL CONDITION

Visc @ 40°C	cSt	■ 149	■ 208	● 153	---
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CONTAMINATION

Water	%	▲ 0.318	▲ 2.24	▲ 0.289	---
Silicon	ppm	▲ 89	▲ 877	▲ 206	---
Sodium	ppm	■ 3	■ 27	■ 6	---
Potassium	ppm	■ 5	■ 44	■ 11	---

Diagnosis

We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a light concentration of water present in the oil. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	■ 380	▲ 3644	▲ 1384	---
Copper	ppm	▲ 85	▲ 193	▲ 63	---
Lead	ppm	■ 6	▲ 35	■ 10	---
Tin	ppm	■ 2	▲ 13	■ 1	---
Aluminum	ppm	● 19	● 196	● 48	---
Chromium	ppm	■ 3	▲ 28	▲ 10	---
Molybdenum	ppm	■ <1	■ 2	■ <1	---
Nickel	ppm	■ <1	■ 3	■ <1	---
Titanium	ppm	2	■ 15	4	---
Silver	ppm	<1	0	0	---
Manganese	ppm	■ 6	■ 45	■ 14	---
Vanadium	ppm	<1	1	<1	---



ADDITIVES

Calcium	ppm	■ 230	■ 1392	■ 313	---
Magnesium	ppm	■ 36	■ 316	■ 63	---
Zinc	ppm	■ 54	■ 53	■ 19	---
Phosphorus	ppm	■ 1107	■ 517	■ 1735	---
Barium	ppm	■ 0	■ 2	■ <1	---
Boron	ppm	37	■ 59	■ 131	---

Depot: VOLVO2990
Unique No: 11049299
Signed: Don Baldrige
Report Date: 30 May 2024



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GRAPHS

