



CONSTRUCTION EQUIPMENT

619686 IHFT SENNEBOGEN 830R 2296 - REAR LEFT FINAL DRIVE



Sample No: VCP431176
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 619686 IHFT



SAMPLE INFORMATION

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

ALTA EQUIPMENT COMPANY - METRO WEST
 56195 PONTIAC TRAIL
 NEW HUDSON, MI
 US 48165
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OIL CONDITION

Visc @ 40°C	cSt	█ 208	▲ 153	---	---
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CONTAMINATION

Water	%	● 2.24	▲ 0.289	---	---
Silicon	ppm	● 877	▲ 206	---	---
Sodium	ppm	█ 27	█ 6	---	---
Potassium	ppm	█ 44	█ 11	---	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	█ 1392	█ 313	---	---
Magnesium	ppm	█ 316	█ 63	---	---
Zinc	ppm	█ 53	█ 19	---	---
Phosphorus	ppm	█ 517	█ 1735	---	---
Barium	ppm	█ 2	█ <1	---	---
Boron	ppm	█ 59	█ 131	---	---

Diagnosis

We advise that you check for the source of water entry. We advise that you check all areas where dirt can enter the system. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Bearing and/or bushing wear is indicated. There is a high concentration of water present in the oil. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO2990
Unique No: 10779564
Signed: Don Baldrige
Report Date: 12 Dec 2023



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GRAPHS

