



CONSTRUCTION EQUIPMENT

646971 VOLVO EC380 311542 - REAR LEFT FINAL DRIVE



Sample No: VCP452297
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 646971



SAMPLE INFORMATION

Sample Number	VCP452297	---	---	---
Sample Date	20 Dec 2023	---	---	---
Machine Hours	3878	---	---	---
Oil Hours	1878	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

FERROUS PROCESSING AND TRADING

3400 E LAFAYETTE
 DETROIT, MI
 US 48207

Contact: KEITH HALL
 keith.hall@fpt1.com

T:
 F:



OIL CONDITION

Visc @ 40°C	cSt	█ 155	---	---	---
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CONTAMINATION

Water	%	NEG	---	---	---
Silicon	ppm	▲ 153	---	---	---
Sodium	ppm	█ 4	---	---	---
Potassium	ppm	█ 10	---	---	---

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. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The condition of the oil is acceptable for the time in service.



WEAR METALS

Iron	ppm	▲ 1292	---	---	---
Copper	ppm	█ 3	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 0	---	---	---
Aluminum	ppm	● 25	---	---	---
Chromium	ppm	█ 8	---	---	---
Molybdenum	ppm	█ 1	---	---	---
Nickel	ppm	█ 1	---	---	---
Titanium	ppm	2	---	---	---
Silver	ppm	0	---	---	---
Manganese	ppm	█ 9	---	---	---
Vanadium	ppm	<1	---	---	---



ADDITIVES

Calcium	ppm	█ 73	---	---	---
Magnesium	ppm	█ 13	---	---	---
Zinc	ppm	█ 21	---	---	---
Phosphorus	ppm	1955	---	---	---
Barium	ppm	█ 2	---	---	---
Boron	ppm	█ 92	---	---	---

Depot: FERDET
Unique No: 11002506
Signed: Sean Felton
Report Date: 30 Apr 2024



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GRAPHS

