



CONSTRUCTION EQUIPMENT

19065 VALFAIR VOLVO EC380E 310512 - REAR RIGHT FINAL DRIVE



Sample No: VCP410421
Oil Type: VOLVO PREMIUM GEAR OIL 80W-90 GL-5
Job No: 19065 VALFAIR



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SAMPLE INFORMATION

Sample Number	VCP410421	VCP360103	VCP319519	---
Sample Date	30 Jun 2023	04 Apr 2022	03 Aug 2021	---
Machine Hours	8132	6745	6581	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Chngd	Changed	---
Sample Status	SEVERE	ABNORMAL	SEVERE	---



OIL CONDITION

Visc @ 40°C	cSt	▲ 55.3	■ 66.4	▲ 682	---
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CONTAMINATION

Silicon	ppm	● 607	■ 33	● 1053	---
Sodium	ppm	■ 2	■ 2	■ 5	---
Potassium	ppm	■ 6	■ 7	■ 19	---



WEAR METALS

Iron	ppm	● 3180	▲ 856	● 9905	---
Copper	ppm	■ 3	■ 4	■ 29	---
Lead	ppm	■ 0	■ 2	■ 2	---
Tin	ppm	■ 0	■ 1	■ <1	---
Aluminum	ppm	▲ 66	■ 11	▲ 118	---
Chromium	ppm	▲ 24	■ 3	● 70	---
Molybdenum	ppm	■ 4	■ 3	7	---
Nickel	ppm	■ 2	1	5	---
Titanium	ppm	10	<1	■ 14	---
Silver	ppm	0	4	0	---
Manganese	ppm	■ 16	■ 6	64	---
Vanadium	ppm	<1	<1	<1	---



ADDITIVES

Calcium	ppm	■ 67	■ 16	74	---
Magnesium	ppm	■ 2	■ 0	20	---
Zinc	ppm	■ 38	■ 17	7	---
Phosphorus	ppm	■ 2413	■ 1402	457	---
Barium	ppm	■ 0	■ 0	4	---
Boron	ppm	■ 197	■ 155	37	---

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. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The oil viscosity is lower than normal. Confirm oil type. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO8769
Unique No: 10552837
Signed: Don Baldrige
Report Date: 14 Jul 2023



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GRAPHS

