



CONSTRUCTION EQUIPMENT

24195 VOLVO EC380EL 314027 - REAR LEFT FINAL DRIVE



Sample No: VCP424764
Oil Type: VOLVO SUPER GEAR OIL 75W-80-GO102
Job No: 24195



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SAMPLE INFORMATION

Sample Number	VCP424764	VCP420825	---	---
Sample Date	09 Oct 2023	12 Jul 2023	---	---
Machine Hours	6529	6393	---	---
Oil Hours	0	1000	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	SEVERE	---	---



OIL CONDITION

Visc @ 40°C	cSt	50.1	42.9	---	---
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CONTAMINATION

Silicon	ppm	▲ 148	425	---	---
Sodium	ppm	■ 0	<1	---	---
Potassium	ppm	■ 2	5	---	---



WEAR METALS

Iron	ppm	▲ 900	1840	---	---
Copper	ppm	■ 2	4	---	---
Lead	ppm	■ 0	0	---	---
Tin	ppm	■ 0	0	---	---
Aluminum	ppm	▲ 12	57	---	---
Chromium	ppm	■ 5	12	---	---
Molybdenum	ppm	■ 1	3	---	---
Nickel	ppm	■ 1	<1	---	---
Titanium	ppm	2	5	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 4	11	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	■ 282	1111	---	---
Magnesium	ppm	■ 5	15	---	---
Zinc	ppm	■ 199	439	---	---
Phosphorus	ppm	■ 1888	848	---	---
Barium	ppm	■ 0	0	---	---
Boron	ppm	■ 202	107	---	---

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 iron level has decreased, but is still abnormal. 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.

Depot: VOLVO3387
Unique No: 10695826
Signed: Don Baldrige
Report Date: 17 Oct 2023



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GRAPHS

