



CONSTRUCTION EQUIPMENT

25641 VOLVO EC350E 314526 - REAR LEFT FINAL DRIVE



Sample No: VCP451077
Oil Type: VOLVO SUPER GEAR OIL 75W-80-GO102
Job No: 25641



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SAMPLE INFORMATION

Sample Number	VCP451077	VCP404396	---	---
Sample Date	16 May 2024	10 Mar 2023	---	---
Machine Hours	2086	400	---	---
Oil Hours	0	500	---	---
Oil Changed	N/A	Changed	---	---
Sample Status	SEVERE	ABNORMAL	---	---



OIL CONDITION

Visc @ 40°C	cSt	55.5	176	---	---
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CONTAMINATION

Water	%	NEG	NEG	---	---
Silicon	ppm	▲ 644	▲ 84	---	---
Sodium	ppm	■ 1	■ 12	---	---
Potassium	ppm	■ 3	■ 4	---	---



WEAR METALS

Iron	ppm	▲ 2725	▲ 723	---	---
Copper	ppm	■ 4	■ 40	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	● 84	■ 11	---	---
Chromium	ppm	▲ 30	■ 7	---	---
Molybdenum	ppm	■ 4	■ 45	---	---
Nickel	ppm	■ 2	4	---	---
Titanium	ppm	10	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	■ 17	■ 11	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 7	■ 21	---	---
Magnesium	ppm	■ 2	■ 11	---	---
Zinc	ppm	■ 6	■ 695	---	---
Phosphorus	ppm	■ 2149	■ 2428	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 174	■ 62	---	---

Diagnosis

We advise that you check all areas where dirt can enter the system. We recommend that you drain the oil from the component if this has not already been done. 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 is no longer serviceable due to the presence of contaminants.

Depot: VOLVO3387
Unique No: 11043307
Signed: Don Baldrige
Report Date: 23 May 2024



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GRAPHS

