



CONSTRUCTION EQUIPMENT

26521 VOLVO EC350E 314352 - REAR RIGHT FINAL DRIVE



Sample No: VCP422200
Oil Type: VOLVO SUPER GEAR OIL 75W-80-GO102
Job No: 26521



SAMPLE INFORMATION

Sample Number	VCP422200	VCP426922	VCP383514	VCP383501
Sample Date	30 Apr 2024	18 Aug 2023	10 Feb 2023	07 Oct 2022
Machine Hours	3111	2066	1163	680
Oil Hours	0	1000	501	0
Oil Changed	Not Chngd	Changed	Changed	Changed
Sample Status	SEVERE	SEVERE	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 40°C	cSt	56.1	61.4	164	165
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CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Silicon	ppm	▲ 1247	▲ 1158	▲ 218	▲ 77
Sodium	ppm	■ 4	■ 3	■ 2	■ <1
Potassium	ppm	■ 10	■ 7	■ 1	■ 3

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.



WEAR METALS

Iron	ppm	▲ 4988	▲ 3088	▲ 699	■ 298
Copper	ppm	■ 8	■ 4	■ <1	■ <1
Lead	ppm	■ 2	■ 0	■ 0	■ 0
Tin	ppm	■ 2	■ <1	■ 0	■ 0
Aluminum	ppm	● 116	● 137	● 30	■ 10
Chromium	ppm	▲ 53	▲ 47	▲ 20	■ 11
Molybdenum	ppm	■ 9	■ 6	■ 2	1
Nickel	ppm	■ 9	■ 4	2	0
Titanium	ppm	■ 16	■ 18	4	1
Silver	ppm	<1	0	0	0
Manganese	ppm	■ 32	■ 22	■ 9	5
Vanadium	ppm	<1	<1	0	<1



ADDITIVES

Calcium	ppm	■ 19	■ 47	■ 20	21
Magnesium	ppm	■ 4	■ 7	■ 1	2
Zinc	ppm	■ 29	■ 20	■ 10	16
Phosphorus	ppm	■ 2239	■ 2103	■ 307	322
Barium	ppm	■ 0	■ 0	■ 3	4
Boron	ppm	■ 216	■ 228	■ 0	<1

Depot: OLTNOR
Unique No: 11016392
Signed: Jonathan Hester
Report Date: 08 May 2024



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GRAPHS

