



CONSTRUCTION EQUIPMENT

9633 LENNOFFS VOLVO EC250E 314006 - REAR LEFT FINAL DRIVE



Sample No: VCP413774
Oil Type: CHEVRON DELO GEAR ESI OIL 85W140
Job No: 9633 LENNOFFS



SAMPLE INFORMATION

Sample Number	VCP413774	VCP302514	VCP290825	---
Sample Date	13 Sep 2023	14 Jun 2021	16 Dec 2020	---
Machine Hours	2515	1507	1116	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	SEVERE	ABNORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 40°C	cSt	371	261	133	---
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CONTAMINATION

Water	%	3.75	---	---	---
Silicon	ppm	924	150	97	---
Sodium	ppm	102	5	4	---
Potassium	ppm	66	3	1	---

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. There is a high concentration of water present in the oil. The oil is no longer serviceable due to the presence of contaminants.



WEAR METALS

Iron	ppm	1478	681	869	---
Copper	ppm	1	<1	1	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	2	<1	<1	---
Aluminum	ppm	280	66	33	---
Chromium	ppm	25	14	22	---
Molybdenum	ppm	2	2	2	---
Nickel	ppm	4	<1	1	---
Titanium	ppm	16	5	4	---
Silver	ppm	0	2	5	---
Manganese	ppm	18	8	11	---
Vanadium	ppm	<1	<1	<1	---



ADDITIVES

Calcium	ppm	95	30	12	---
Magnesium	ppm	71	12	4	---
Zinc	ppm	42	26	25	---
Phosphorus	ppm	1027	1172	1685	---
Barium	ppm	0	0	0	---
Boron	ppm	179	169	102	---

Depot: VOLV00150
Unique No: 10657933
Signed: Angela Borella
Report Date: 22 Sep 2023



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GRAPHS

