



# CONSTRUCTION EQUIPMENT

## W14767 VOLVO EC750 310197 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP441221  
**Oil Type:** VOLVO PREMIUM GEAR OIL 85W-140 GL-5  
**Job No:** W14767



### SAMPLE INFORMATION

Sample Number	<b>VCP441221</b>	VCP404681	VCP406896	VCP379549
Sample Date	<b>13 Oct 2023</b>	19 Jul 2023	18 Apr 2023	29 Dec 2022
Machine Hours	<b>8054</b>	7569	7030	6527
Oil Hours	<b>2000</b>	0	1000	500
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	SEVERE

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### OIL CONDITION

Visc @ 40°C	cSt	<b>155</b>	155	148	151
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### CONTAMINATION

Silicon	ppm	<b>400</b>	258	851	469
Sodium	ppm	<b>3</b>	3	11	8
Potassium	ppm	<b>24</b>	13	55	22



### WEAR METALS

Iron	ppm	<b>1351</b>	820	1430	1427
Copper	ppm	<b>4</b>	<1	2	3
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>75</b>	48	186	79
Chromium	ppm	<b>8</b>	5	8	8
Molybdenum	ppm	<b>1</b>	1	2	2
Nickel	ppm	<b>3</b>	1	5	3
Titanium	ppm	<b>5</b>	3	10	5
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>10</b>	6	12	10
Vanadium	ppm	<b>&lt;1</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>349</b>	274	908	278
Magnesium	ppm	<b>34</b>	29	99	49
Zinc	ppm	<b>27</b>	10	23	41
Phosphorus	ppm	<b>426</b>	482	802	686
Barium	ppm	<b>1</b>	0	0	0
Boron	ppm	<b>48</b>	49	142	111

### 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 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:** VOLVO0080  
**Unique No:** 10702440  
**Signed:** Don Baldrige  
**Report Date:** 23 Oct 2023



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## VOLVO GRAPHS

