



# CONSTRUCTION EQUIPMENT

## 136104 VOLVO EC750E 314191 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP434652  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** 136104



**LATTIMORE MATERIALS/HOLCIM - ROSSER - LAFARGE**  
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### SAMPLE INFORMATION

Sample Number	<b>VCP434652</b>	VCP443226	VCP431190	VCP430298
Sample Date	<b>17 Apr 2024</b>	20 Feb 2024	08 Dec 2023	29 Sep 2023
Machine Hours	<b>3963</b>	3520	3036	2487
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>SEVERE</b>	SEVERE	SEVERE	SEVERE

### OIL CONDITION

Visc @ 40°C	cSt	<b>757</b>	154	294	144
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### CONTAMINATION

Water	%	<b>▲ 0.774</b>	▲ 0.848	▲ 0.260	NEG
Silicon	ppm	<b>▲ 5152</b>	▲ 3931	▲ 3705	▲ 970
Sodium	ppm	■ 19	■ 18	■ 12	■ 5
Potassium	ppm	■ 103	■ 82	■ 73	■ 21

### WEAR METALS

Iron	ppm	<b>▲ 9001</b>	▲ 6399	▲ 7770	▲ 2385
Copper	ppm	■ 18	■ 14	■ 17	■ 5
Lead	ppm	■ 2	■ 3	■ <1	■ 0
Tin	ppm	■ 2	■ 2	■ 0	■ <1
Aluminum	ppm	<b>● 536</b>	● 403	● 324	● 96
Chromium	ppm	<b>▲ 70</b>	▲ 46	▲ 53	▲ 17
Molybdenum	ppm	■ 18	■ 16	■ 8	■ 1
Nickel	ppm	<b>▲ 19</b>	▲ 13	▲ 13	■ 3
Titanium	ppm	■ 33	▲ 24	■ 20	6
Silver	ppm	0	0	0	0
Manganese	ppm	■ 78	■ 50	■ 60	▲ 21
Vanadium	ppm	2	<1	<1	<1

### ADDITIVES

Calcium	ppm	■ 1067	■ 776	■ 497	■ 185
Magnesium	ppm	■ 103	■ 87	■ 36	■ 15
Zinc	ppm	■ 65	■ 77	■ 18	■ 15
Phosphorus	ppm	■ 755	■ 891	■ 941	■ 872
Barium	ppm	■ 3	■ 4	■ 0	■ 0
Boron	ppm	■ 162	■ 171	■ 160	■ 95

### Diagnosis

We advise that you check all areas where dirt can enter the system. We advise that you check for the source of water entry. The oil change at the time of sampling has been noted. We advise that you inspect for the source(s) of wear. We recommend an early resample to monitor this condition. The iron level is severe. The chromium level is severe. Gear wear is indicated. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. There is a moderate concentration of water present in the oil. The oil viscosity is higher than normal. The oil is no longer serviceable due to the presence of contaminants.

**Depot:** LATSCU  
**Unique No:** 10991814  
**Signed:** Don Baldrige  
**Report Date:** 24 Apr 2024



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## GRAPHS

