



# CONSTRUCTION EQUIPMENT

## 135094 VOLVO EC750E 314191 - REAR LEFT FINAL DRIVE



**Sample No:** VCP434237  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** 135094



**LATTIMORE MATERIALS/HOLCIM - ROSSER - LAFARGE**  
 14242 S SH-34  
 SCURRY, TX  
 US 75158  
 Contact: WALLACE WARREN  
 wallace.warren@lafargeholcim.com  
 T:  
 F:

### SAMPLE INFORMATION

Sample Number	<b>VCP434237</b>	VCP430306	VCP416022	VCP418723
Sample Date	<b>08 Dec 2023</b>	29 Sep 2023	08 Aug 2023	20 Jun 2023
Machine Hours	<b>3036</b>	2487	2037	1596
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>SEVERE</b>	ABNORMAL	ABNORMAL	ABNORMAL

### OIL CONDITION

Visc @ 40°C	cSt	<b>132</b>	128	131	131
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### CONTAMINATION

Water	%	<b>0.068</b>	NEG	NEG	NEG
Silicon	ppm	<b>613</b>	▲ 114	▲ 150	▲ 92
Sodium	ppm	<b>0</b>	■ 1	■ 3	■ 0
Potassium	ppm	<b>18</b>	■ 4	■ 6	■ 5

### WEAR METALS

Iron	ppm	<b>1568</b>	▲ 578	▲ 917	■ 471
Copper	ppm	<b>2</b>	■ 1	■ 1	■ 1
Lead	ppm	<b>0</b>	■ 0	■ 0	■ 0
Tin	ppm	<b>0</b>	■ <1	■ <1	■ 0
Aluminum	ppm	<b>77</b>	▲ 21	▲ 28	▲ 17
Chromium	ppm	<b>11</b>	■ 4	■ 8	■ 4
Molybdenum	ppm	<b>1</b>	■ 0	■ <1	■ 1
Nickel	ppm	<b>3</b>	■ <1	■ 2	■ 1
Titanium	ppm	<b>4</b>	■ 1	■ 1	■ <1
Silver	ppm	<b>0</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>13</b>	■ 5	■ 8	■ 4
Vanadium	ppm	<b>0</b>	■ <1	■ <1	■ 0

### ADDITIVES

Calcium	ppm	<b>146</b>	■ 62	■ 121	■ 101
Magnesium	ppm	<b>10</b>	■ 6	■ 7	■ 4
Zinc	ppm	<b>26</b>	■ 23	■ 44	■ 44
Phosphorus	ppm	<b>1032</b>	■ 988	■ 956	■ 965
Barium	ppm	<b>0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>172</b>	■ 173	■ 148	■ 157

### 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 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:** LATSCU  
**Unique No:** 10789039  
**Signed:** Don Baldrige  
**Report Date:** 17 Dec 2023



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## GRAPHS

