



# CONSTRUCTION EQUIPMENT

## 135094 VOLVO EC750E 314191 - REAR RIGHT FINAL DRIVE



**Sample No:** VCP431190  
**Oil Type:** GEAR OIL SAE 80W90  
**Job No:** 135094



### SAMPLE INFORMATION

Sample Number	<b>VCP431190</b>	VCP430298	VCP416016	VCP418722
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>	SEVERE	SEVERE	SEVERE

LATTIMORE MATERIALS/HOLCIM - ROSSER - LAFARGE  
 14242 S SH-34  
 SCURRY, TX  
 US 75158  
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### OIL CONDITION

Visc @ 40°C	cSt	<b>294</b>	144	262	211
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### CONTAMINATION

Water	%	<b>0.260</b>	NEG	0.320	NEG
Silicon	ppm	<b>3705</b>	970	3456	1775
Sodium	ppm	<b>12</b>	5	12	4
Potassium	ppm	<b>73</b>	21	69	41

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



### WEAR METALS

Iron	ppm	<b>7770</b>	2385	7207	3510
Copper	ppm	<b>17</b>	5	16	8
Lead	ppm	<b>&lt;1</b>	0	<1	<1
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>324</b>	96	301	207
Chromium	ppm	<b>53</b>	17	48	23
Molybdenum	ppm	<b>8</b>	1	8	4
Nickel	ppm	<b>13</b>	3	16	8
Titanium	ppm	<b>20</b>	6	18	12
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>60</b>	21	58	28
Vanadium	ppm	<b>&lt;1</b>	<1	1	<1



### ADDITIVES

Calcium	ppm	<b>497</b>	185	585	358
Magnesium	ppm	<b>36</b>	15	33	23
Zinc	ppm	<b>18</b>	15	40	37
Phosphorus	ppm	<b>941</b>	872	873	923
Barium	ppm	<b>0</b>	0	4	0
Boron	ppm	<b>160</b>	95	154	141

**Depot:** LATSCU  
**Unique No:** 10789042  
**Signed:** Don Baldrige  
**Report Date:** 17 Dec 2023



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## VOLVO GRAPHS

