



# CONSTRUCTION EQUIPMENT

## 135200 VOLVO EC750E 314194 - DIESEL ENGINE



**Sample No:** VCP434675

**Oil Type:** {unknown}

**Job No:** 135200



### SAMPLE INFORMATION

Sample Number	<b>VCP434675</b>	VCP430307	VCP423802	VCP418738
Sample Date	<b>29 Dec 2023</b>	02 Oct 2023	07 Aug 2023	20 Jun 2023
Machine Hours	<b>2941</b>	2442	1964	1488
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Not Changd	Changed	Not Changd
Sample Status	<b>ABNORMAL</b>	NORMAL	NORMAL	ATTENTION



**LATTIMORE MATERIALS/HOLCIM - ROSSER - LAFARGE**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.2</b>	12.3	11.8	12.1
Base Number (BN)	mg KOH/g	<b>4.3</b>	6.6	4.1	6.4
Oxidation (PA)	%	<b>109</b>	89	108	86



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.9</b>	0.4	0.9	0.4
Nitration (PA)	%	<b>99</b>	78	94	75
Sulfation (PA)	%	<b>78</b>	70	75	69
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>▲ 50</b>	6	11	9
Sodium	ppm	<b>0</b>	3	0	2
Potassium	ppm	<b>7</b>	1	5	2



### WEAR METALS

Iron	ppm	<b>61</b>	11	43	10
Copper	ppm	<b>23</b>	13	37	▲ 29
Lead	ppm	<b>5</b>	0	3	<1
Tin	ppm	<b>4</b>	<1	2	1
Aluminum	ppm	<b>▲ 21</b>	3	4	2
Chromium	ppm	<b>2</b>	<1	<1	<1
Molybdenum	ppm	<b>118</b>	124	137	125
Nickel	ppm	<b>4</b>	0	2	<1
Titanium	ppm	<b>1</b>	0	<1	0
Silver	ppm	<b>0</b>	0	<1	0
Manganese	ppm	<b>3</b>	<1	1	<1
Vanadium	ppm	<b>0</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1471</b>	1539	1636	1634
Magnesium	ppm	<b>655</b>	696	628	699
Zinc	ppm	<b>838</b>	850	843	899
Phosphorus	ppm	<b>627</b>	683	655	721
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>38</b>	166	40	172

### Diagnosis

We advise that you check the air filter, air induction system, and any areas where dirt may enter the component. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Elemental levels of silicon (Si) and aluminum (Al) indicate alumina-silicate (coarse dirt) ingress. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.

**Depot:** LATSCU  
**Unique No:** 10821086  
**Signed:** Sean Felton  
**Report Date:** 10 Jan 2024



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## GRAPHS

