



# CONSTRUCTION EQUIPMENT

## 607924 VOLVO EC480E 314048 - DIESEL ENGINE



**Sample No:** VCP431699  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 607924



### SAMPLE INFORMATION

Sample Number	<b>VCP431699</b>	VCP404970	VCP367795	VCP354462
Sample Date	<b>13 Oct 2023</b>	29 Apr 2023	05 Nov 2022	07 May 2022
Machine Hours	<b>6634</b>	6015	5462	4599
Oil Hours	<b>600</b>	0	500	560
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION

### BLAZE CONSTRUCTION

5640 ST JEAN ST  
 DETROIT, MI  
 US 48213  
 Contact: DAVE WARD  
 dward@blazecontracting.net  
 T: (248)632-2317  
 F:



### OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.1</b>	▲ 12.4	▲ 12.3	▲ 12.2
Base Number (BN)	mg KOH/g	<b>■ 9.5</b>	■ 6.8	■ 9.6	■ 8.8
Oxidation (PA)	%	<b>79</b>	57	66	75

### Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



### CONTAMINATION

Soot %	%	<b>■ 0.2</b>	■ 0.1	■ 0.2	■ 0.1
Nitration (PA)	%	<b>63</b>	68	78	89
Sulfation (PA)	%	<b>59</b>	48	57	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>■ 8</b>	■ 5	■ 5	■ 5
Sodium	ppm	<b>■ 2</b>	■ 1	■ <1	■ 2
Potassium	ppm	<b>■ 0</b>	■ <1	■ 2	■ 3



### WEAR METALS

Iron	ppm	<b>■ 7</b>	■ 7	■ 7	■ 8
Copper	ppm	<b>■ 6</b>	■ 7	■ 2	■ 3
Lead	ppm	<b>■ 0</b>	■ 0	■ <1	■ 2
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Aluminum	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ 1
Chromium	ppm	<b>■ &lt;1</b>	■ 0	■ <1	■ <1
Molybdenum	ppm	<b>■ 44</b>	■ 56	■ 61	■ 47
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>■ 0</b>	■ 0	■ <1	■ 0
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>0</b>	<1	0	<1



### ADDITIVES

Calcium	ppm	<b>■ 1482</b>	■ 1176	■ 1099	■ 1427
Magnesium	ppm	<b>■ 504</b>	■ 968	■ 934	746
Zinc	ppm	<b>■ 960</b>	■ 1215	■ 1271	■ 1152
Phosphorus	ppm	<b>■ 810</b>	■ 1006	■ 1033	■ 979
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 39</b>	■ 5	■ <1	■ 16

**Depot:** BLADET  
**Unique No:** 10698240  
**Signed:** Don Baldrige  
**Report Date:** 18 Oct 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

