



# CONSTRUCTION EQUIPMENT

1722 RENTALS VOLVO EC480E 315143 - DIESEL ENGINE



**Sample No:** VCP437654  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 1722 RENTALS



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## SAMPLE INFORMATION

Sample Number	<b>VCP437654</b>	VCP440718	VCP412216	VCP411666
Sample Date	<b>29 Jan 2024</b>	31 Oct 2023	15 Aug 2023	07 Jun 2023
Machine Hours	<b>2300</b>	1550	1031	587
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ATTENTION

## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.4</b>	▲ 12.1	▲ 12.0	▲ 10.9
Base Number (BN)	mg KOH/g	<b>■ 7.3</b>	■ 8.2	■ 8.0	■ 5.6
Oxidation (PA)	%	<b>80</b>	76	78	68

## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	<b>78</b>	68	69	92
Sulfation (PA)	%	<b>59</b>	59	61	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	■ 0.8
Silicon	ppm	<b>■ 11</b>	■ 9	■ 10	■ 24
Sodium	ppm	<b>■ 7</b>	■ 0	■ 2	■ 4
Potassium	ppm	<b>■ &lt;1</b>	■ 1	■ <1	■ 2

## WEAR METALS

Iron	ppm	<b>■ 7</b>	■ 7	■ 7	■ 13
Copper	ppm	<b>■ 8</b>	■ 22	■ 124	■ 228
Lead	ppm	<b>■ 0</b>	■ 0	■ 0	■ 2
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ 1	■ 2
Aluminum	ppm	<b>■ &lt;1</b>	■ <1	■ 2	■ <1
Chromium	ppm	<b>■ 0</b>	■ <1	■ <1	■ 0
Molybdenum	ppm	<b>■ 51</b>	■ 54	■ 46	■ 85
Nickel	ppm	<b>■ 0</b>	■ 0	■ 0	■ <1
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Manganese	ppm	<b>■ 0</b>	■ 0	■ <1	■ 2
Vanadium	ppm	<b>0</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>■ 1759</b>	■ 1483	■ 1780	■ 2302
Magnesium	ppm	<b>■ 446</b>	■ 627	■ 473	22
Zinc	ppm	<b>■ 1124</b>	■ 1156	■ 1160	■ 1100
Phosphorus	ppm	<b>■ 940</b>	■ 926	■ 931	■ 912
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 14</b>	■ 12	■ 23	■ 13

## 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.

**Depot:** VOLVO0096  
**Unique No:** 10861613  
**Signed:** Sean Felton  
**Report Date:** 06 Feb 2024



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## GRAPHS

