



# CONSTRUCTION EQUIPMENT

SWO-072820 VOLVO EC480E 314146 - DIESEL ENGINE



**Sample No:** VCP442001  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-072820



## SAMPLE INFORMATION

Sample Number	<b>VCP442001</b>	VCP432204	VCP419108	VCP424699
Sample Date	<b>12 Jun 2024</b>	31 Jan 2024	28 Aug 2023	03 May 2023
Machine Hours	<b>7399</b>	6892	6421	5940
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

### SAIIA CONSTRUCTION LLC

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## OIL CONDITION

Visc @ 100°C	cSt	<b>11.8</b>	11.9	11.6	12.0
Base Number (BN)	mg KOH/g	<b>5.3</b>	6.4	8.8	7.1
Oxidation (PA)	%	<b>72</b>	73	70	69



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.2	0.1
Nitration (PA)	%	<b>85</b>	86	69	70
Sulfation (PA)	%	<b>57</b>	54	55	51
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	15	5	7
Sodium	ppm	<b>4</b>	0	3	2
Potassium	ppm	<b>2</b>	3	2	0



## WEAR METALS

Iron	ppm	<b>7</b>	11	6	7
Copper	ppm	<b>1</b>	4	<1	<1
Lead	ppm	<b>0</b>	<1	1	0
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>4</b>	4	2	1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>88</b>	148	43	54
Nickel	ppm	<b>&lt;1</b>	3	<1	1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>0</b>	0	1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1338</b>	2141	1730	1507
Magnesium	ppm	<b>566</b>	884	514	769
Zinc	ppm	<b>835</b>	1382	990	1062
Phosphorus	ppm	<b>691</b>	1136	788	917
Barium	ppm	<b>0</b>	26	0	0
Boron	ppm	<b>23</b>	68	35	12

## Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

**Depot:** SAIBIR  
**Unique No:** 11084087  
**Signed:** Sean Felton  
**Report Date:** 19 Jun 2024



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## VOLVO GRAPHS

