



# CONSTRUCTION EQUIPMENT

## SWO-069429 EPIROC TMG21 SEDO346 - DIESEL ENGINE



**Sample No:** VCP446978  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-069429



### SAMPLE INFORMATION

Sample Number	<b>VCP446978</b>	VCP435528	VCP445800	VCP429589
Sample Date	<b>05 Feb 2024</b>	20 Dec 2023	14 Nov 2023	10 Oct 2023
Machine Hours	<b>5020</b>	4779	4528	4260
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>13.2</b>	13.2	13.3	13.5
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.5	9.8	9.9
Oxidation (PA)	%	<b>84</b>	86	80	80

### Diagnosis

Resample at the next service interval to monitor. Please note that this is a corrected copy for data entry update for time on unit. 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.

### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	58	53	53
Sulfation (PA)	%	<b>62</b>	63	60	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	6	4
Sodium	ppm	<b>0</b>	2	2	2
Potassium	ppm	<b>2</b>	<1	2	0

### WEAR METALS

Iron	ppm	<b>5</b>	3	4	3
Copper	ppm	<b>&lt;1</b>	1	<1	<1
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>0</b>	<1	0	0
Aluminum	ppm	<b>2</b>	1	1	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>46</b>	40	49	41
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	<1	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	0	0	0

### ADDITIVES

Calcium	ppm	<b>1613</b>	1639	1802	1465
Magnesium	ppm	<b>487</b>	538	599	499
Zinc	ppm	<b>1077</b>	1146	1223	966
Phosphorus	ppm	<b>960</b>	951	1028	809
Barium	ppm	<b>25</b>	0	0	0
Boron	ppm	<b>51</b>	42	54	34

**Depot:** SAIBIR  
**Unique No:** 10872020  
**Signed:** Doug Bogart  
**Report Date:** 13 Feb 2024



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## GRAPHS

