

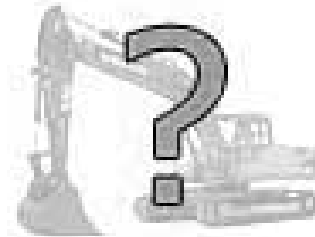


# CONSTRUCTION EQUIPMENT

SWO-072945 EPIROC TMG2 ISEDO346 - DIESEL ENGINE



**Sample No:** VCP419134  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-072945



## SAMPLE INFORMATION

Sample Number	<b>VCP419134</b>	VCP454500	VCP452384	VCP446978
Sample Date	<b>23 Jun 2024</b>	30 Apr 2024	11 Mar 2024	05 Feb 2024
Machine Hours	<b>5768</b>	5492	5253	5020
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>13.0</b>	13.3	13.2	13.2
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.6	9.9	9.6
Oxidation (PA)	%	<b>83</b>	84	86	84



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>54</b>	58	57	58
Sulfation (PA)	%	<b>61</b>	62	61	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	3	4	3
Sodium	ppm	<b>1</b>	3	<1	0
Potassium	ppm	<b>1</b>	0	0	2



## WEAR METALS

Iron	ppm	<b>&lt;1</b>	2	2	5
Copper	ppm	<b>3</b>	<1	0	<1
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>0</b>	0	<1	0
Aluminum	ppm	<b>2</b>	0	<1	2
Chromium	ppm	<b>&lt;1</b>	0	0	<1
Molybdenum	ppm	<b>39</b>	42	42	46
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	<1	<1	0
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1684</b>	1836	1691	1613
Magnesium	ppm	<b>494</b>	491	509	487
Zinc	ppm	<b>1179</b>	1026	1091	1077
Phosphorus	ppm	<b>896</b>	904	927	960
Barium	ppm	<b>0</b>	0	0	25
Boron	ppm	<b>39</b>	59	50	51

## 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:** 11098956  
**Signed:** Jonathan Hester  
**Report Date:** 27 Jun 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

