



# CONSTRUCTION EQUIPMENT

SWO-065585 EPIROC TMG21 SEDO346 - DIESEL ENGINE



**Sample No:** VCP433244  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SWO-065585



## SAMPLE INFORMATION

Sample Number	<b>VCP433244</b>	VCP414077	VCP407798	VCP402532
Sample Date	<b>05 Sep 2023</b>	26 Jul 2023	24 May 2023	25 Apr 2023
Machine Hours	<b>4067</b>	3837	3531	3310
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>13.1</b>	13.0	13.1	13.3
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.9	10.0	9.9
Oxidation (PA)	%	<b>87</b>	88	87	87



## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>59</b>	60	56	55
Sulfation (PA)	%	<b>63</b>	63	63	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	4	4
Sodium	ppm	<b>2</b>	2	0	<1
Potassium	ppm	<b>&lt;1</b>	0	<1	0



## WEAR METALS

Iron	ppm	<b>5</b>	4	4	3
Copper	ppm	<b>1</b>	<1	1	0
Lead	ppm	<b>&lt;1</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	0
Aluminum	ppm	<b>4</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	0
Molybdenum	ppm	<b>41</b>	40	41	36
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1805</b>	1769	1630	1596
Magnesium	ppm	<b>552</b>	522	485	467
Zinc	ppm	<b>1197</b>	1176	1053	924
Phosphorus	ppm	<b>969</b>	928	861	710
Barium	ppm	<b>0</b>	0	2	0
Boron	ppm	<b>38</b>	37	46	48

## 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:** 10647176  
**Signed:** Jonathan Hester  
**Report Date:** 19 Sep 2023



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## GRAPHS

