



# CONSTRUCTION EQUIPMENT

## SWO-068392 EPIROC TMG21 SEDO346 - DIESEL ENGINE



**Sample No:** VCP435528  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SWO-068392



### SAMPLE INFORMATION

Sample Number	<b>VCP435528</b>	VCP445800	VCP429589	VCP433244
Sample Date	<b>20 Dec 2023</b>	14 Nov 2023	10 Oct 2023	05 Sep 2023
Machine Hours	<b>4779</b>	4528	4260	4067
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>	13.3	13.5	13.1
Base Number (BN)	mg KOH/g	<b>9.5</b>	9.8	9.9	9.9
Oxidation (PA)	%	<b>86</b>	80	80	87

### 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.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	53	53	59
Sulfation (PA)	%	<b>63</b>	60	60	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	6	4	5
Sodium	ppm	<b>2</b>	2	2	2
Potassium	ppm	<b>&lt;1</b>	2	0	<1



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>1639</b>	1802	1465	1805
Magnesium	ppm	<b>538</b>	599	499	552
Zinc	ppm	<b>1146</b>	1223	966	1197
Phosphorus	ppm	<b>951</b>	1028	809	969
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>42</b>	54	34	38

**Depot:** SAIBIR  
**Unique No:** 10809262  
**Signed:** Don Baldrige  
**Report Date:** 03 Jan 2024



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## GRAPHS

