



# CONSTRUCTION EQUIPMENT

## SWO-064092 EPIROC TMG21 SEDO346 - DIESEL ENGINE



**Sample No:** VCP414077  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SWO-064092



### SAMPLE INFORMATION

Sample Number	<b>VCP414077</b>	VCP407798	VCP402532	VCP402490
Sample Date	<b>26 Jul 2023</b>	24 May 2023	25 Apr 2023	10 Mar 2023
Machine Hours	<b>3837</b>	3531	3310	3112
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>	13.1	13.3	13.1
Base Number (BN)	mg KOH/g	<b>9.9</b>	10.0	9.9	10.5
Oxidation (PA)	%	<b>88</b>	87	87	82



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>60</b>	56	55	53
Sulfation (PA)	%	<b>63</b>	63	62	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	4	4	4
Sodium	ppm	<b>2</b>	0	<1	2
Potassium	ppm	<b>0</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>4</b>	4	3	3
Copper	ppm	<b>&lt;1</b>	1	0	0
Lead	ppm	<b>&lt;1</b>	<1	0	0
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>&lt;1</b>	<1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>40</b>	41	36	40
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	<1
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>1769</b>	1630	1596	1643
Magnesium	ppm	<b>522</b>	485	467	525
Zinc	ppm	<b>1176</b>	1053	924	1112
Phosphorus	ppm	<b>928</b>	861	710	885
Barium	ppm	<b>0</b>	2	0	0
Boron	ppm	<b>37</b>	46	48	49

### 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:** 10587689  
**Signed:** Doug Bogart  
**Report Date:** 06 Aug 2023



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## GRAPHS

