



# CONSTRUCTION EQUIPMENT

## SWO-067730 EPIROC TMG21 SED0492 - DIESEL ENGINE



**Sample No:** VCP428776  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO-067730



### SAMPLE INFORMATION

Sample Number	<b>VCP428776</b>	VCP428910	VCP431663	VCP415573
Sample Date	<b>27 Nov 2023</b>	31 Oct 2023	08 Oct 2023	23 Aug 2023
Machine Hours	<b>4529</b>	4296	4048	3744
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>	13.1	13.3	13.0
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.2	7.7	9.1
Oxidation (PA)	%	<b>82</b>	82	77	83

### 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 acceptable for the time in service.



### CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.3	0.4	0.3
Nitration (PA)	%	<b>67</b>	69	76	69
Sulfation (PA)	%	<b>60</b>	60	57	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	10	13	13
Sodium	ppm	<b>2</b>	0	2	3
Potassium	ppm	<b>0</b>	2	<1	4



### WEAR METALS

Iron	ppm	<b>6</b>	9	12	12
Copper	ppm	<b>2</b>	3	4	3
Lead	ppm	<b>0</b>	<1	<1	2
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	<1	2	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>47</b>	51	45	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>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



### ADDITIVES

Calcium	ppm	<b>1715</b>	1590	1442	1747
Magnesium	ppm	<b>525</b>	554	638	508
Zinc	ppm	<b>1066</b>	1105	1110	1103
Phosphorus	ppm	<b>931</b>	896	913	879
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>30</b>	27	12	21

**Depot:** SAIBIR  
**Unique No:** 10765814  
**Signed:** Don Baldrige  
**Report Date:** 03 Dec 2023



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## GRAPHS

