



# CONSTRUCTION EQUIPMENT

## SWO-065278 EPIROC TMG21 SEDO223 - DIESEL ENGINE



**Sample No:** VCP433641  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO-065278



### SAMPLE INFORMATION

Sample Number	<b>VCP433641</b>	VCP424048	VCP408681	VCP410188
Sample Date	<b>29 Aug 2023</b>	05 Jul 2023	17 May 2023	03 Apr 2023
Machine Hours	<b>3384</b>	3133	2865	2651
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	12.6	12.6	12.5
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.9	10.2	9.9
Oxidation (PA)	%	<b>86</b>	85	84	81

### CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.2	0.2
Nitration (PA)	%	<b>70</b>	69	59	61
Sulfation (PA)	%	<b>63</b>	63	63	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>8</b>	7	6	7
Sodium	ppm	<b>0</b>	2	<1	2
Potassium	ppm	<b>2</b>	1	1	0

### 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.

### WEAR METALS

Iron	ppm	<b>6</b>	5	4	4
Copper	ppm	<b>2</b>	2	2	2
Lead	ppm	<b>&lt;1</b>	<1	<1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	0
Aluminum	ppm	<b>2</b>	2	<1	<1
Chromium	ppm	<b>&lt;1</b>	0	<1	0
Molybdenum	ppm	<b>40</b>	39	40	41
Nickel	ppm	<b>0</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	4	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	<1	0	0

### ADDITIVES

Calcium	ppm	<b>1634</b>	1744	1570	1596
Magnesium	ppm	<b>471</b>	484	475	489
Zinc	ppm	<b>1033</b>	1075	1047	1031
Phosphorus	ppm	<b>873</b>	852	882	863
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>25</b>	32	36	39

**Depot:** SAIBIR  
**Unique No:** 10630057  
**Signed:** Sean Felton  
**Report Date:** 01 Sep 2023



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## GRAPHS

