



# CONSTRUCTION EQUIPMENT

SWO-064931 EPIROC TMG21 SED0492 - DIESEL ENGINE



**Sample No:** VCP415573  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO-064931



## SAMPLE INFORMATION

Sample Number	<b>VCP415573</b>	VCP424279	VCP412966	VCP382503
Sample Date	<b>23 Aug 2023</b>	03 Jul 2023	25 May 2023	16 Apr 2023
Machine Hours	<b>3744</b>	3460	3205	2907
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>	12.9	13.0	13.1
Base Number (BN)	mg KOH/g	<b>9.1</b>	9.8	9.5	9.2
Oxidation (PA)	%	<b>83</b>	85	86	87

## CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.3	0.2
Nitration (PA)	%	<b>69</b>	73	78	72
Sulfation (PA)	%	<b>61</b>	63	62	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>13</b>	10	9	8
Sodium	ppm	<b>3</b>	2	2	2
Potassium	ppm	<b>4</b>	0	0	1

## 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.

## WEAR METALS

Iron	ppm	<b>12</b>	12	9	10
Copper	ppm	<b>3</b>	3	2	3
Lead	ppm	<b>2</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	<1	5	0
Chromium	ppm	<b>&lt;1</b>	<1	0	<1
Molybdenum	ppm	<b>40</b>	37	40	41
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0

## ADDITIVES

Calcium	ppm	<b>1747</b>	1665	1772	1749
Magnesium	ppm	<b>508</b>	465	521	527
Zinc	ppm	<b>1103</b>	1027	1089	1046
Phosphorus	ppm	<b>879</b>	844	911	855
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>21</b>	19	22	25

**Depot:** SAIBIR  
**Unique No:** 10622176  
**Signed:** Sean Felton  
**Report Date:** 29 Aug 2023



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## GRAPHS

