



# CONSTRUCTION EQUIPMENT

SWO-063552 EPIROC TMG21 SED0492 - DIESEL ENGINE



**Sample No:** VCP424279  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO-063552



## SAMPLE INFORMATION

Sample Number	<b>VCP424279</b>	VCP412966	VCP382503	VCP394003
Sample Date	<b>03 Jul 2023</b>	25 May 2023	16 Apr 2023	10 Mar 2023
Machine Hours	<b>3460</b>	3205	2907	2693
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>12.9</b>	13.0	13.1	13.1
Base Number (BN)	mg KOH/g	<b>9.8</b>	9.5	9.2	10.1
Oxidation (PA)	%	<b>85</b>	86	87	84

## CONTAMINATION

Soot %	%	<b>0.3</b>	0.3	0.2	0.2
Nitration (PA)	%	<b>73</b>	78	72	70
Sulfation (PA)	%	<b>63</b>	62	62	62
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>10</b>	9	8	8
Sodium	ppm	<b>2</b>	2	2	0
Potassium	ppm	<b>0</b>	0	1	2

## 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>	9	10	10
Copper	ppm	<b>3</b>	2	3	3
Lead	ppm	<b>0</b>	0	<1	<1
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>&lt;1</b>	5	0	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>37</b>	40	41	42
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	0	0	<1
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>1665</b>	1772	1749	1725
Magnesium	ppm	<b>465</b>	521	527	483
Zinc	ppm	<b>1027</b>	1089	1046	1082
Phosphorus	ppm	<b>844</b>	911	855	906
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>19</b>	22	25	26

**Depot:** SAIBIR  
**Unique No:** 10547694  
**Signed:** Doug Bogart  
**Report Date:** 09 Jul 2023



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## GRAPHS

