



# CONSTRUCTION EQUIPMENT

## SWO-066611 EPIROC TMG21 SED0346 - DIESEL ENGINE



**Sample No:** VCP429589  
**Oil Type:** DIESEL ENGINE OIL SAE 40  
**Job No:** SWO-066611



### SAMPLE INFORMATION

Sample Number	<b>VCP429589</b>	VCP433244	VCP414077	VCP407798
Sample Date	<b>10 Oct 2023</b>	05 Sep 2023	26 Jul 2023	24 May 2023
Machine Hours	<b>4260</b>	4067	3837	3531
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

4400 LEWISBURG RD  
 BIRMINGHAM, AL  
 US 35207

Contact: STEPHANI BRITTON  
 sbritton@saiia.com;doug.bogart@wearcheck.com  
 T: (205)943-2268  
 F: (205)943-2269



### OIL CONDITION

Visc @ 100°C	cSt	<b>13.5</b>	13.1	13.0	13.1
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.9	9.9	10.0
Oxidation (PA)	%	<b>80</b>	87	88	87



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>53</b>	59	60	56
Sulfation (PA)	%	<b>60</b>	63	63	63
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>4</b>	5	4	4
Sodium	ppm	<b>2</b>	2	2	0
Potassium	ppm	<b>0</b>	<1	0	<1



### WEAR METALS

Iron	ppm	<b>3</b>	5	4	4
Copper	ppm	<b>&lt;1</b>	1	<1	1
Lead	ppm	<b>0</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	0	<1
Aluminum	ppm	<b>0</b>	4	<1	<1
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>41</b>	41	40	41
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	0	0	0
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>1465</b>	1805	1769	1630
Magnesium	ppm	<b>499</b>	552	522	485
Zinc	ppm	<b>966</b>	1197	1176	1053
Phosphorus	ppm	<b>809</b>	969	928	861
Barium	ppm	<b>0</b>	0	0	2
Boron	ppm	<b>34</b>	38	37	46

### 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:** 10698249  
**Signed:** Angela Borella  
**Report Date:** 18 Oct 2023



# CONSTRUCTION EQUIPMENT



## GRAPHS

