



# CONSTRUCTION EQUIPMENT

## SWO064723 EPIROC TMG21SED0165 - DIESEL ENGINE



**Sample No:** VCP411894  
**Oil Type:** DIESEL ENGINE OIL SAE 15W40  
**Job No:** SWO064723



### SAMPLE INFORMATION

Sample Number	<b>VCP411894</b>	VCP407501	VCP410310	VCP406416
Sample Date	<b>09 Aug 2023</b>	13 Jun 2023	30 Mar 2023	04 Feb 2023
Machine Hours	<b>3817</b>	3489	3217	3006
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>13.0</b>	13.1	13.1	13.2
Base Number (BN)	mg KOH/g	<b>9.9</b>	9.3	10.3	10.0
Oxidation (PA)	%	<b>84</b>	86	80	84



### CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	56	53	56
Sulfation (PA)	%	<b>61</b>	62	61	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>	4	5	5
Sodium	ppm	<b>0</b>	<1	2	2
Potassium	ppm	<b>&lt;1</b>	0	<1	0



### WEAR METALS

Iron	ppm	<b>5</b>	4	4	4
Copper	ppm	<b>&lt;1</b>	0	<1	3
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	1	<1	<1
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>40</b>	41	40	40
Nickel	ppm	<b>0</b>	0	0	<1
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>1650</b>	1602	1551	1591
Magnesium	ppm	<b>473</b>	501	472	488
Zinc	ppm	<b>1073</b>	1061	1032	1010
Phosphorus	ppm	<b>888</b>	875	853	808
Barium	ppm	<b>2</b>	0	0	0
Boron	ppm	<b>37</b>	52	56	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:** 10607019  
**Signed:** Sean Felton  
**Report Date:** 18 Aug 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

