



# CONSTRUCTION EQUIPMENT

SWO-072471 EPIROC TMG2 ISEDO223 - DIESEL ENGINE



**Sample No:** VCP439682  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-072471



## SAMPLE INFORMATION

Sample Number	<b>VCP439682</b>	VCP449842	VCP445296	VCP441300
Sample Date	<b>05 Jun 2024</b>	16 Apr 2024	06 Mar 2024	30 Jan 2024
Machine Hours	<b>4958</b>	4708	4459	4133
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>12.7</b>	12.9	12.8	13.0
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.2	10.1	8.7
Oxidation (PA)	%	<b>79</b>	77	83	79



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.1	0.1	0.2
Nitration (PA)	%	<b>62</b>	59	56	70
Sulfation (PA)	%	<b>59</b>	58	60	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	6	6	6
Sodium	ppm	<b>&lt;1</b>	2	2	2
Potassium	ppm	<b>1</b>	0	0	2



## WEAR METALS

Iron	ppm	<b>4</b>	3	4	5
Copper	ppm	<b>2</b>	<1	1	7
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>2</b>	1	<1	2
Chromium	ppm	<b>&lt;1</b>	0	0	0
Molybdenum	ppm	<b>54</b>	55	42	63
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	<1	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>0</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>1585</b>	1518	1682	1459
Magnesium	ppm	<b>527</b>	492	498	540
Zinc	ppm	<b>953</b>	837	898	964
Phosphorus	ppm	<b>778</b>	740	811	820
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>42</b>	53	41	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:** 11073558  
**Signed:** Sean Felton  
**Report Date:** 13 Jun 2024



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

