

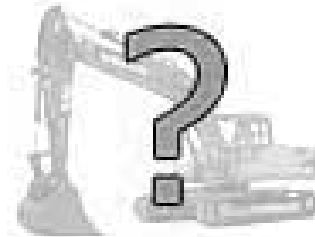


# CONSTRUCTION EQUIPMENT

SWO-071198 EPIROC TMG2 ISEDO223 - DIESEL ENGINE



**Sample No:** VCP449842  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-071198



## SAMPLE INFORMATION

Sample Number	<b>VCP449842</b>	VCP445296	VCP441300	VCP428675
Sample Date	<b>16 Apr 2024</b>	06 Mar 2024	30 Jan 2024	27 Nov 2023
Machine Hours	<b>4708</b>	4459	4133	3804
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>12.9</b>	12.8	13.0	12.8
Base Number (BN)	mg KOH/g	<b>9.2</b>	10.1	8.7	9.0
Oxidation (PA)	%	<b>77</b>	83	79	84

### 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 acceptable for the time in service.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.1</b>	0.1	0.2	0.2
Nitration (PA)	%	<b>59</b>	56	70	71
Sulfation (PA)	%	<b>58</b>	60	59	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>	6	6	8
Sodium	ppm	<b>2</b>	2	2	2
Potassium	ppm	<b>0</b>	0	2	0



## WEAR METALS

Iron	ppm	<b>3</b>	4	5	6
Copper	ppm	<b>&lt;1</b>	1	7	8
Lead	ppm	<b>0</b>	0	<1	0
Tin	ppm	<b>&lt;1</b>	0	<1	<1
Aluminum	ppm	<b>1</b>	<1	2	<1
Chromium	ppm	<b>0</b>	0	0	0
Molybdenum	ppm	<b>55</b>	42	63	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>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1518</b>	1682	1459	1670
Magnesium	ppm	<b>492</b>	498	540	562
Zinc	ppm	<b>837</b>	898	964	1082
Phosphorus	ppm	<b>740</b>	811	820	902
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>53</b>	41	46	25

**Depot:** SAIBIR  
**Unique No:** 10990956  
**Signed:** Sean Felton  
**Report Date:** 24 Apr 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

