



# CONSTRUCTION EQUIPMENT

SWO-071373 EPIROC TMG2 ISEDO492 - DIESEL ENGINE



**Sample No:** VCP454757  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SWO-071373



## SAMPLE INFORMATION

Sample Number	<b>VCP454757</b>	VCP455405	VCP444476	VCP438022
Sample Date	<b>24 Apr 2024</b>	17 Mar 2024	13 Feb 2024	03 Jan 2024
Machine Hours	<b>5482</b>	5262	5028	4772
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>13.1</b>	13.0	13.1	13.2
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.2	6.7	9.2
Oxidation (PA)	%	<b>82</b>	82	41	85



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.2</b>	0.2	0.1	0.2
Nitration (PA)	%	<b>66</b>	68	47	68
Sulfation (PA)	%	<b>60</b>	59	43	61
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	6	6	10
Sodium	ppm	<b>2</b>	0	2	0
Potassium	ppm	<b>0</b>	3	1	2



## WEAR METALS

Iron	ppm	<b>6</b>	6	6	9
Copper	ppm	<b>2</b>	2	2	2
Lead	ppm	<b>&lt;1</b>	<1	0	<1
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>2</b>	3	2	2
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>44</b>	53	51	47
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>0</b>	<1	<1	<1
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	0	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



## ADDITIVES

Calcium	ppm	<b>1754</b>	1719	1543	1753
Magnesium	ppm	<b>505</b>	515	506	532
Zinc	ppm	<b>1111</b>	1092	1034	1092
Phosphorus	ppm	<b>939</b>	924	854	849
Barium	ppm	<b>0</b>	2	0	8
Boron	ppm	<b>31</b>	38	36	34

## 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:** 11003236  
**Signed:** Sean Felton  
**Report Date:** 30 Apr 2024



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## GRAPHS

