



# CONSTRUCTION EQUIPMENT

540989 DIPRO CATERPILLAR 982M LLSU02686 - DIESEL ENGINE



**Sample No:** VCP411765  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 540989 DIPRO



## SAMPLE INFORMATION

Sample Number	<b>VCP411765</b>	VCP382971	---	---
Sample Date	<b>11 Jul 2023</b>	19 Jan 2023	---	---
Machine Hours	<b>10846</b>	10401	---	---
Oil Hours	<b>0</b>	500	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	ATTENTION	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.0</b>	▲ 11.7	---	---
Base Number (BN)	mg KOH/g	<b>9.4</b>	9.3	---	---
Oxidation (PA)	%	<b>63</b>	90	---	---

## 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.



## CONTAMINATION

Soot %	%	<b>0.5</b>	0.9	---	---
Nitration (PA)	%	<b>63</b>	88	---	---
Sulfation (PA)	%	<b>53</b>	63	---	---
Glycol	%	<b>NEG</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	0.7	---	---
Silicon	ppm	<b>4</b>	6	---	---
Sodium	ppm	<b>1</b>	2	---	---
Potassium	ppm	<b>1</b>	2	---	---



## WEAR METALS

Iron	ppm	<b>14</b>	26	---	---
Copper	ppm	<b>2</b>	4	---	---
Lead	ppm	<b>1</b>	2	---	---
Tin	ppm	<b>&lt;1</b>	<1	---	---
Aluminum	ppm	<b>4</b>	6	---	---
Chromium	ppm	<b>&lt;1</b>	1	---	---
Molybdenum	ppm	<b>53</b>	42	---	---
Nickel	ppm	<b>0</b>	0	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>&lt;1</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	<1	---	---
Vanadium	ppm	<b>0</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>1099</b>	1739	---	---
Magnesium	ppm	<b>907</b>	501	---	---
Zinc	ppm	<b>1248</b>	1135	---	---
Phosphorus	ppm	<b>1012</b>	940	---	---
Barium	ppm	<b>0</b>	1	---	---
Boron	ppm	<b>4</b>	25	---	---

**Depot:** VOLVO2990  
**Unique No:** 10559732  
**Signed:** Don Baldrige  
**Report Date:** 17 Jul 2023



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## GRAPHS

