



# CONSTRUCTION EQUIPMENT

## 646161 DIPRO KOMATSU WA480 A48036 - DIESEL ENGINE



**Sample No:** VCP452370  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 646161 DIPRO



### SAMPLE INFORMATION

Sample Number	<b>VCP452370</b>	VCP431152	VCP380940	---
Sample Date	<b>03 Jan 2024</b>	21 Sep 2023	13 Dec 2022	---
Machine Hours	<b>9016</b>	8231	6843	---
Oil Hours	<b>500</b>	1400	1000	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.6</b>	13.2	12.7	---
Base Number (BN)	mg KOH/g	<b>8.2</b>	7.5	8.9	---
Oxidation (PA)	%	<b>67</b>	71	76	---

### 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	---
Soot %	%	<b>0.7</b>	1.2	0.6	---
Nitration (PA)	%	<b>80</b>	88	78	---
Sulfation (PA)	%	<b>58</b>	62	70	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	6	5	---
Sodium	ppm	<b>2</b>	2	0	---
Potassium	ppm	<b>0</b>	<1	2	---



### WEAR METALS

Iron	ppm	<b>27</b>	46	14	---
Copper	ppm	<b>25</b>	69	45	---
Lead	ppm	<b>&lt;1</b>	2	1	---
Tin	ppm	<b>1</b>	2	1	---
Aluminum	ppm	<b>&lt;1</b>	3	2	---
Chromium	ppm	<b>&lt;1</b>	<1	0	---
Molybdenum	ppm	<b>67</b>	74	125	---
Nickel	ppm	<b>0</b>	0	0	---
Titanium	ppm	<b>0</b>	0	0	---
Silver	ppm	<b>0</b>	0	1	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



### ADDITIVES

Calcium	ppm	<b>1142</b>	1373	1654	---
Magnesium	ppm	<b>915</b>	816	589	---
Zinc	ppm	<b>1288</b>	1231	902	---
Phosphorus	ppm	<b>1050</b>	909	737	---
Barium	ppm	<b>0</b>	0	0	---
Boron	ppm	<b>4</b>	10	218	---

**Depot:** VOLVO2990  
**Unique No:** 10822413  
**Signed:** Don Baldrige  
**Report Date:** 11 Jan 2024



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## GRAPHS

