



# CONSTRUCTION EQUIPMENT

UPAP-ORLANDO 9469 617406 VOLVO L90G 617406 - DIESEL ENGINE



**Sample No:** VCP433991  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 9469



## SAMPLE INFORMATION

Sample Number	<b>VCP433991</b>	VCP417706	DJJ0005262	VCP385458
Sample Date	<b>08 Jan 2024</b>	11 Jul 2023	02 Feb 2023	28 Dec 2022
Machine Hours	<b>14951</b>	14237	13814	13731
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.8	13.2	13.7
Base Number (BN)	mg KOH/g	<b>10.0</b>	10.4	10.4	10.3
Oxidation (PA)	%	<b>80</b>	76	73	56

## 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

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>58</b>	48	43	47
Sulfation (PA)	%	<b>59</b>	57	58	49
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	5	5	3
Sodium	ppm	<b>2</b>	2	2	<1
Potassium	ppm	<b>0</b>	2	0	0



## WEAR METALS

Iron	ppm	<b>4</b>	4	3	3
Copper	ppm	<b>&lt;1</b>	1	0	<1
Lead	ppm	<b>&lt;1</b>	<1	<1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	4	2	5
Chromium	ppm	<b>0</b>	<1	<1	<1
Molybdenum	ppm	<b>38</b>	44	42	56
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1662</b>	1688	1597	1070
Magnesium	ppm	<b>486</b>	611	538	888
Zinc	ppm	<b>1160</b>	1231	1096	1180
Phosphorus	ppm	<b>874</b>	1009	875	978
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>31</b>	40	59	5

**Depot:** UPUORL  
**Unique No:** 10829137  
**Signed:** Wes Davis  
**Report Date:** 12 Jan 2024



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## GRAPHS

