



# CONSTRUCTION EQUIPMENT

## 716240 BULK EXPRESS VOLVO L180H 5391 - DIESEL ENGINE



**Sample No:** VCP447404  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 716240 BULK EXPRESS



### SAMPLE INFORMATION

Sample Number	<b>VCP447404</b>	VCP440455	VCP440263	VCP440365
Sample Date	<b>14 May 2024</b>	23 Mar 2024	26 Dec 2023	10 Nov 2023
Machine Hours	<b>6290</b>	5788	5286	4739
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>12.7</b>	12.7	12.8	12.6
Base Number (BN)	mg KOH/g	<b>8.1</b>	9.5	9.3	9.5
Oxidation (PA)	%	<b>75</b>	83	82	82

### 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>0.1</b>	0.1	0.1	0.2
Nitration (PA)	%	<b>62</b>	58	58	61
Sulfation (PA)	%	<b>57</b>	60	60	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>15</b>	15	12	11
Sodium	ppm	<b>&lt;1</b>	0	1	3
Potassium	ppm	<b>2</b>	3	<1	<1



### WEAR METALS

Iron	ppm	<b>4</b>	5	4	2
Copper	ppm	<b>1</b>	2	<1	2
Lead	ppm	<b>&lt;1</b>	1	<1	<1
Tin	ppm	<b>1</b>	1	2	<1
Aluminum	ppm	<b>2</b>	1	2	1
Chromium	ppm	<b>&lt;1</b>	<1	0	0
Molybdenum	ppm	<b>39</b>	48	43	40
Nickel	ppm	<b>1</b>	2	<1	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>&lt;1</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	0	0



### ADDITIVES

Calcium	ppm	<b>1593</b>	1663	1758	1594
Magnesium	ppm	<b>475</b>	506	568	518
Zinc	ppm	<b>1108</b>	1088	1175	1107
Phosphorus	ppm	<b>971</b>	985	985	937
Barium	ppm	<b>0</b>	<1	0	0
Boron	ppm	<b>30</b>	49	34	27

**Depot:** VOLVO0096  
**Unique No:** 11035297  
**Signed:** Wes Davis  
**Report Date:** 21 May 2024



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## VOLVO GRAPHS

