



# CONSTRUCTION EQUIPMENT

## 688757 BULK EXPRESS VOLVO L150H 6770 - DIESEL ENGINE



**Sample No:** VCP453881  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 688757 BULK EXPRESS



### SAMPLE INFORMATION

Sample Number	<b>VCP453881</b>	VCP437672	VCP425264	VCP425723
Sample Date	<b>21 Mar 2024</b>	03 Jan 2024	19 Jun 2023	04 May 2023
Machine Hours	<b>11881</b>	11384	10821	10350
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC**  
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### OIL CONDITION

Visc @ 100°C	cSt	<b>12.7</b>	12.6	12.4	12.6
Base Number (BN)	mg KOH/g	<b>9.0</b>	10.1	9.8	8.2
Oxidation (PA)	%	<b>74</b>	82	87	79

### 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	0.2	0.1
Nitration (PA)	%	<b>60</b>	53	63	58
Sulfation (PA)	%	<b>57</b>	61	63	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>17</b>	14	17	13
Sodium	ppm	<b>0</b>	0	4	0
Potassium	ppm	<b>2</b>	2	3	<1



### WEAR METALS

Iron	ppm	<b>5</b>	3	4	<1
Copper	ppm	<b>1</b>	<1	<1	<1
Lead	ppm	<b>2</b>	<1	1	0
Tin	ppm	<b>1</b>	<1	<1	0
Aluminum	ppm	<b>1</b>	2	0	0
Chromium	ppm	<b>&lt;1</b>	<1	<1	<1
Molybdenum	ppm	<b>66</b>	40	42	42
Nickel	ppm	<b>&lt;1</b>	<1	<1	0
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1757</b>	1682	1723	1667
Magnesium	ppm	<b>913</b>	498	503	548
Zinc	ppm	<b>1488</b>	1099	1131	1152
Phosphorus	ppm	<b>1296</b>	890	922	942
Barium	ppm	<b>&lt;1</b>	8	<1	0
Boron	ppm	<b>26</b>	38	30	28

**Depot:** VOLVO0096  
**Unique No:** 10949831  
**Signed:** Don Baldrige  
**Report Date:** 30 Mar 2024



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## GRAPHS

