



# CONSTRUCTION EQUIPMENT

## 7105 BULK EXPRESS VOLVO L180H 5391 - DIESEL ENGINE



**Sample No:** VCP440263  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 7105 BULK EXPRESS



### SAMPLE INFORMATION

Sample Number	<b>VCP440263</b>	VCP440365	VCP434823	VCP415532
Sample Date	<b>26 Dec 2023</b>	10 Nov 2023	14 Sep 2023	19 Jul 2023
Machine Hours	<b>5286</b>	4739	3966	3194
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**  
 9601 BOGGY CREEK RD  
 ORLANDO, FL  
 US 32824  
 Contact: Robert LaPlante  
 robert.laplante@altg.com  
 T: (407)508-9736  
 F: (407)659-8720



### OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.6	12.5	12.52
Base Number (BN)	mg KOH/g	<b>9.3</b>	9.5	9.5	9.9
Oxidation (PA)	%	<b>82</b>	82	82	80

### 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>	0.2	0.2	0.2
Nitration (PA)	%	<b>58</b>	61	58	57
Sulfation (PA)	%	<b>60</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>12</b>	11	15	10
Sodium	ppm	<b>1</b>	3	2	2
Potassium	ppm	<b>&lt;1</b>	<1	1	0



### WEAR METALS

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



### ADDITIVES

Calcium	ppm	<b>1758</b>	1594	1689	1798
Magnesium	ppm	<b>568</b>	518	468	534
Zinc	ppm	<b>1175</b>	1107	1111	1184
Phosphorus	ppm	<b>985</b>	937	917	984
Barium	ppm	<b>0</b>	0	0	<1
Boron	ppm	<b>34</b>	27	24	40

**Depot:** VOLVO0096  
**Unique No:** 10808095  
**Signed:** Wes Davis  
**Report Date:** 02 Jan 2024



# CONSTRUCTION EQUIPMENT



## GRAPHS

