

## **CONSTRUCTION EQUIPMENT**

5025 RITCHIE BROS VOLVO L90F 68727 - DIESEL ENGINE



Oil Type: DIESEL ENGINE OIL SAE 15W40

**Job No:** 5025 RITCHIE BROS

VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP430535	VCP146007	VCP117969	
Sample Date		30 Nov 2023	05 Mar 2013	12 Jun 2012	
Machine Hours		14949	7258	6078	
Oil Hours		0	0	0	
Oil Changed		Not Changd	Changed	Changed	
Sample Status		NORMAL	NORMAL	NORMAL	
OIL CONDI	TION				
Visc @ 100°C	cSt	m12 F	m 15 22	m 12 27	
		<b>■ 13.5</b>	15.33	■ 13.37	
Base Number (BN)		9.6			
Oxidation (PA)	%	85	<b>□</b> 60	■28	
VOLVO					
CONTAMII	NATION				
Water	%	NEG	NEG	NEG	
Soot %	%	■ 0.3	0.2	<b>0</b>	
Nitration (PA)	%	58	<u>58</u>	■33	
Sulfation (PA)	%	63	<b>5</b> 3	■39	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	<b>■</b> 9	<b>4</b>	<b>4</b>	
Sodium	ppm	<b>■</b> 0	<b>4</b>	<b>3</b>	
Potassium	ppm	<b>2</b>	<b>1</b> 3	<b>1</b>	
WEAR ME	7 IAT				
_					- ·
Iron	ppm	<b>9</b>	8	<b>6</b>	
Copper	ppm	<b>■</b> <1	<b>-</b> <1	<b>=</b> <1	
Lead	ppm	<b>0</b>	<1	<1 < 1	
Tin	ppm	■0	0	<b>-</b> <1	
Aluminum	ppm	<b>1</b>	1	1	
Chromium	ppm	<b>■</b> <1	□ <1             □ <1	<1	
Molybdenum Nickel	ppm	<b>43</b>	<b>4</b> 0	<b>37</b>	
	ppm	<b>0</b>	<1	<1	
Titanium	ppm	<b>1</b> <1	<1	0	
Silver	ppm	<b>■</b> 0	0	0	
Manganese	ppm	0	0	<1	
Vanadium	ppm	0	0	0	
VOLVO					
<b>ADDITIVE</b>					
Calcium	ppm	<b>1674</b>	1525	1351	
Magnesium	ppm	<b>531</b>	771	596	
Zinc	ppm	<b>1118</b>	□1088	■881	
Phosphorus	ppm	■944	942	■846	



#### **HIGHWAY EQUIPMENT & SUPPLY CO MAIN**

PO BOX 1957 HARRISBURG, PA US 17105 Contact: WADE MADER wmader@hwyequip.com T: (717)564-3031 F: (717)564-3568

### 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.

 Depot:
 VOLVO0025

 Unique No:
 10769478

 Signed:
 Wes Davis

 Report Date:
 06 Dec 2023

ppm

ppm

**0** 

**50** 

Barium

Boron



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