

# CONSTRUCTION EQUIPMENT VOLVO L90H 626424 - DIESEL ENGINE



Sample No: VCP420488

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

Job No:

VOLVO				
SAMPLE II	NFORMATION			
Sample Number		VCP420488	VCP381491	 
Sample Date		05 Sep 2023	18 Jan 2023	 
Machine Hours		0	0	 
Oil Hours		0	0	 
Oil Changed		N/A	Changed	 
Sample Status		NORMAL	ABNORMAL	 
OIL CONDI	TION			
Visc @ 100°C	cSt	□ 13.8	<u> </u>	 
Base Number (BN)		<b>10.0</b>	10.4	 
Oxidation (PA)	%	73	73	 
Oxidation (PA)	70	73	75	 
VOLVO				
CONTAMIN	NATION			
Water	%	NEG	NEG	 
Soot %	%	■ 0.6	■ 0.3	 
Nitration (PA)	%	68	58	 
Sulfation (PA)	%	59	59	 
Glycol	%	NEG	NEG	 
Fuel	%	<1.0	<1.0	 
Silicon	ppm	<b>10</b>	<b>1</b> 8	 
Sodium	ppm	<b>■</b> 3	<b>4</b>	 
Potassium	ppm	<b>■&lt;1</b>	< 1	 
WEAR ME	TALS			
Iron	ppm	<b>□</b> 30	□35	 
Copper	ppm	<b>11</b>	10	 
Lead	ppm	<b>0</b>	<b>2</b>	 
Tin	ppm	2	3	 
Aluminum	ppm	■8	<u>△</u> 36	 
Chromium	ppm	<b>2</b>	5	 
Molybdenum	ppm	<b>■</b> 36	<b>4</b> 0	 
Nickel	ppm	<b>■&lt;1</b>	<1	 
Titanium	ppm	<1	<1	 
Silver	ppm	<b>■</b> 0	0	 
Manganese	ppm	<b>1</b>	<b>5</b>	 
Vanadium	ppm	<1	<1	 
ADDITIVE:	2			
Calcium	ppm	<b>1816</b>	□1544	 
Magnesium	ppm	<b>433</b>	<b>598</b>	 
Zinc	ppm	<b>1158</b>	<b>1190</b>	 
Phosphorus	ppm	<b>■</b> 978	■960	 
Barium	ppm	<b>-</b> <1	<u>8</u>	 
Boron	ppm	<b>28</b>	<b>5</b> 4	 



### **COWIN EQUIPMENT COMPANY**

P.O. DRAWER 9367 MONTGOMERY, AL US 36108 Contact: BRYAN DICKS bdicks@cowin.com T: (334)262-6642 F: (334)269-1514

## 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:
 VOLVO8532

 Unique No:
 10871881

 Signed:
 Wes Davis

 Report Date:
 09 Feb 2024



# **CONSTRUCTION EQUIPMENT**





#### GRAPHS

