



# CONSTRUCTION EQUIPMENT

SPM633481 VOLVO L120F 26137 - DIESEL ENGINE



**Sample No:** VCP429703  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SPM633481



## SAMPLE INFORMATION

Sample Number	<b>VCP429703</b>	VCP380741	VCP361855	VCP328901
Sample Date	<b>13 Nov 2023</b>	09 Dec 2022	01 Mar 2022	11 Oct 2021
Machine Hours	<b>18916</b>	17980	16964	16523
Oil Hours	<b>500</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**BLAZE CONSTRUCTION**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>14.2</b>	13.3	13.8	13.0
Base Number (BN)	mg KOH/g	<b>8.0</b>	11.0	10.3	---
Oxidation (PA)	%	<b>71</b>	59	66	81

## 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>0.6</b>	0.2	0.3	0.8
Nitration (PA)	%	<b>85</b>	62	66	74
Sulfation (PA)	%	<b>61</b>	55	58	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>14</b>	5	5	3
Sodium	ppm	<b>5</b>	0	2	1
Potassium	ppm	<b>3</b>	3	1	8

## WEAR METALS

Iron	ppm	<b>17</b>	12	8	6
Copper	ppm	<b>2</b>	<1	<1	1
Lead	ppm	<b>3</b>	1	3	2
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>6</b>	2	3	3
Chromium	ppm	<b>1</b>	<1	<1	<1
Molybdenum	ppm	<b>35</b>	34	63	53
Nickel	ppm	<b>0</b>	0	0	<1
Titanium	ppm	<b>2</b>	1	<1	<1
Silver	ppm	<b>0</b>	<1	0	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>&lt;1</b>	<1	<1	0

## ADDITIVES

Calcium	ppm	<b>1447</b>	1670	1398	1342
Magnesium	ppm	<b>994</b>	715	1070	775
Zinc	ppm	<b>1256</b>	1138	1469	1226
Phosphorus	ppm	<b>984</b>	953	1216	1002
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>33</b>	49	13	11

**Depot:** BLADET  
**Unique No:** 10764797  
**Signed:** Wes Davis  
**Report Date:** 30 Nov 2023



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## VOLVO GRAPHS

