



# CONSTRUCTION EQUIPMENT

A11383 VOLVO L120F 66670 - DIESEL ENGINE



**Sample No:** VCP434145  
**Oil Type:** MOBIL 15W40  
**Job No:** A11383



## SAMPLE INFORMATION

Sample Number	<b>VCP434145</b>	VCP426989	VCP406367	VCP358531
Sample Date	<b>30 Oct 2023</b>	15 Jun 2023	13 Apr 2023	21 Apr 2022
Machine Hours	<b>11170</b>	10726	10550	10016
Oil Hours	<b>250</b>	0	250	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

**JAMES J ANDERSON**  
 6958 TORRESDALE AVENUE  
 PHILADELPHIA, PA  
 US 19135  
 Contact: JOHN HERBUT  
 herb@jjaconstruction.com  
 T: (215)850-9051  
 F: (215)427-0208



## OIL CONDITION

Visc @ 100°C	cSt	<b>13.1</b>	13.6	13.3	13.1
Base Number (BN)	mg KOH/g	<b>8.3</b>	8.2	10.4	11.6
Oxidation (PA)	%	<b>75</b>	41	79	84



## CONTAMINATION

Soot %	%	<b>0.1</b>	0.1	0.1	0.1
Nitration (PA)	%	<b>49</b>	49	56	55
Sulfation (PA)	%	<b>57</b>	45	60	65
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>5</b>	4	8	18
Sodium	ppm	<b>2</b>	0	1	<1
Potassium	ppm	<b>1</b>	2	0	0



## WEAR METALS

Iron	ppm	<b>4</b>	2	6	6
Copper	ppm	<b>&lt;1</b>	<1	<1	1
Lead	ppm	<b>0</b>	<1	0	<1
Tin	ppm	<b>0</b>	0	0	<1
Aluminum	ppm	<b>3</b>	<1	2	3
Chromium	ppm	<b>&lt;1</b>	0	<1	1
Molybdenum	ppm	<b>37</b>	16	38	39
Nickel	ppm	<b>0</b>	<1	0	<1
Titanium	ppm	<b>&lt;1</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>&lt;1</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1669</b>	2093	1543	1834
Magnesium	ppm	<b>442</b>	148	522	521
Zinc	ppm	<b>1111</b>	1045	1089	1179
Phosphorus	ppm	<b>942</b>	904	855	1038
Barium	ppm	<b>7</b>	0	0	0
Boron	ppm	<b>45</b>	13	43	75

## 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:** JAAPHI  
**Unique No:** 10737791  
**Signed:** Wes Davis  
**Report Date:** 10 Nov 2023



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## GRAPHS

