



# CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2280 - DIESEL ENGINE



**Sample No:** VCP368338  
**Oil Type:** MOBIL 15W40  
**Job No:** TRANSPORT LEASING



## SAMPLE INFORMATION

Sample Number	<b>VCP368338</b>	VCP371227	VCP402500	VCP371230
Sample Date	<b>14 Nov 2023</b>	10 Oct 2023	18 Apr 2023	27 Feb 2023
Machine Hours	<b>21662</b>	21192	20706	20011
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	N/A	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>13.2</b>	13.3	12.8	13.2
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.4	8.7	8.1
Oxidation (PA)	%	<b>55</b>	59	59	63



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.6	0.3	0.3
Nitration (PA)	%	<b>51</b>	61	62	68
Sulfation (PA)	%	<b>52</b>	54	53	55
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	2	4
Sodium	ppm	<b>0</b>	1	1	2
Potassium	ppm	<b>1</b>	0	0	<1



## WEAR METALS

Iron	ppm	<b>4</b>	9	3	3
Copper	ppm	<b>1</b>	2	1	3
Lead	ppm	<b>0</b>	0	0	<1
Tin	ppm	<b>&lt;1</b>	<1	0	<1
Aluminum	ppm	<b>1</b>	2	2	2
Chromium	ppm	<b>0</b>	0	0	<1
Molybdenum	ppm	<b>62</b>	62	66	69
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>&lt;1</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	1
Manganese	ppm	<b>0</b>	0	<1	1
Vanadium	ppm	<b>0</b>	0	0	<1



## ADDITIVES

Calcium	ppm	<b>1108</b>	1146	1137	1208
Magnesium	ppm	<b>918</b>	971	944	843
Zinc	ppm	<b>1205</b>	1298	1269	1097
Phosphorus	ppm	<b>984</b>	1062	1002	893
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>3</b>	6	6	19

## 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:** VOLVO1835  
**Unique No:** 10751258  
**Signed:** Wes Davis  
**Report Date:** 21 Nov 2023



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## GRAPHS

