



# CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 2280 - DIESEL ENGINE



**Sample No:** VCP371227  
**Oil Type:** MOBIL 15W40  
**Job No:** TRANSPORT LEASING



## SAMPLE INFORMATION

Sample Number	VCP371227	VCP402500	VCP371230	VCP371223
Sample Date	10 Oct 2023	18 Apr 2023	27 Feb 2023	10 Jan 2023
Machine Hours	21192	20706	20011	19317
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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## OIL CONDITION

Visc @ 100°C	cSt	13.3	12.8	13.2	13.0
Base Number (BN)	mg KOH/g	9.4	8.7	8.1	9.1
Oxidation (PA)	%	59	59	63	57



## CONTAMINATION

Soot %	%	0.6	0.3	0.3	0.2
Nitration (PA)	%	61	62	68	57
Sulfation (PA)	%	54	53	55	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	2	4	4
Sodium	ppm	1	1	2	0
Potassium	ppm	0	0	<1	1



## WEAR METALS

Iron	ppm	9	3	3	3
Copper	ppm	2	1	3	3
Lead	ppm	0	0	<1	1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	2	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	62	66	69	60
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	1	0
Manganese	ppm	0	<1	1	<1
Vanadium	ppm	0	0	<1	<1



## ADDITIVES

Calcium	ppm	1146	1137	1208	1247
Magnesium	ppm	971	944	843	931
Zinc	ppm	1298	1269	1097	1357
Phosphorus	ppm	1062	1002	893	1007
Barium	ppm	0	0	0	0
Boron	ppm	6	6	19	12

## 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:** 10699585  
**Signed:** Wes Davis  
**Report Date:** 19 Oct 2023



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## GRAPHS

