



# CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3069 - DIESEL ENGINE



**Sample No:** VCP441751  
**Oil Type:** MOBIL 15W40  
**Job No:** TRANSPORT LEASING



## SAMPLE INFORMATION

Sample Number	<b>VCP441751</b>	VCP440143	VCP406615	VCP428884
Sample Date	<b>08 Apr 2024</b>	27 Feb 2024	22 Jan 2024	12 Dec 2023
Machine Hours	<b>16098</b>	15532	15042	14549
Oil Hours	<b>0</b>	0	0	0
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.9</b>	12.6	12.5	12.6
Base Number (BN)	mg KOH/g	<b>8.8</b>	9.0	9.0	8.6
Oxidation (PA)	%	<b>57</b>	56	57	61



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	<b>0.3</b>	0.2	0.2	0.3
Nitration (PA)	%	<b>55</b>	55	57	61
Sulfation (PA)	%	<b>52</b>	52	52	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>2</b>	4	2	3
Sodium	ppm	<b>&lt;1</b>	0	<1	1
Potassium	ppm	<b>0</b>	1	<1	1



## WEAR METALS

Iron	ppm	<b>3</b>	6	1	3
Copper	ppm	<b>&lt;1</b>	<1	2	2
Lead	ppm	<b>0</b>	<1	1	<1
Tin	ppm	<b>0</b>	<1	<1	<1
Aluminum	ppm	<b>&lt;1</b>	2	<1	1
Chromium	ppm	<b>0</b>	<1	<1	0
Molybdenum	ppm	<b>58</b>	73	65	66
Nickel	ppm	<b>0</b>	0	0	0
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>0</b>	0	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1093</b>	1167	1068	1045
Magnesium	ppm	<b>952</b>	949	892	899
Zinc	ppm	<b>1258</b>	1247	1168	1196
Phosphorus	ppm	<b>1053</b>	1072	1010	992
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>1</b>	9	6	8

## 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:** 11006064  
**Signed:** Wes Davis  
**Report Date:** 02 May 2024



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## GRAPHS

