



# CONSTRUCTION EQUIPMENT

TRANSPORT LEASING VOLVO L220H 3569 - DIESEL ENGINE



**Sample No:** VCP441749  
**Oil Type:** MOBIL 15W40  
**Job No:** TRANSPORT LEASING



## SAMPLE INFORMATION

Sample Number	<b>VCP441749</b>	VCP368371	VCP440844	VCP401929
Sample Date	<b>24 Apr 2024</b>	13 Mar 2024	01 Feb 2024	18 Dec 2023
Machine Hours	<b>2000</b>	1440	968	544
Oil Hours	<b>0</b>	0	0	544
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	ATTENTION	ABNORMAL

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## OIL CONDITION

Visc @ 100°C	cSt	█ <b>12.6</b>	● 11.9	● 12.1	● 11.2
Base Number (BN)	mg KOH/g	█ <b>8.1</b>	█ 9.1	█ 7.2	█ 6.2
Oxidation (PA)	%	<b>56</b>	55	58	61



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	NEG
Soot %	%	█ <b>0.2</b>	█ 0.2	█ 0.2	█ 0.2
Nitration (PA)	%	<b>55</b>	55	63	71
Sulfation (PA)	%	<b>52</b>	53	52	53
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	█ 0.1
Silicon	ppm	█ <b>4</b>	█ 7	█ 9	█ 22
Sodium	ppm	█ <b>&lt;1</b>	█ 0	█ 0	█ 1
Potassium	ppm	█ <b>0</b>	█ 2	█ 2	█ 4



## WEAR METALS

Iron	ppm	█ <b>6</b>	█ 6	█ 8	█ 13
Copper	ppm	█ <b>2</b>	█ 11	▲ 65	▲ 322
Lead	ppm	█ <b>0</b>	█ <1	█ 1	█ <1
Tin	ppm	█ <b>&lt;1</b>	█ 1	█ 2	█ 2
Aluminum	ppm	█ <b>1</b>	█ 2	█ 3	█ 2
Chromium	ppm	█ <b>0</b>	█ <1	█ <1	█ <1
Molybdenum	ppm	█ <b>59</b>	█ 55	█ 82	█ 85
Nickel	ppm	█ <b>0</b>	█ 0	█ 1	█ <1
Titanium	ppm	<b>0</b>	<1	<1	0
Silver	ppm	█ <b>0</b>	█ 0	█ <1	█ 0
Manganese	ppm	█ <b>0</b>	█ <1	█ 2	█ 2
Vanadium	ppm	<b>0</b>	0	<1	0



## ADDITIVES

Calcium	ppm	█ <b>1265</b>	█ 1601	█ 1227	█ 2115
Magnesium	ppm	█ <b>928</b>	█ 757	█ 796	█ 53
Zinc	ppm	█ <b>1303</b>	█ 1304	█ 1141	█ 1178
Phosphorus	ppm	█ <b>1091</b>	█ 1109	█ 958	█ 950
Barium	ppm	█ <b>0</b>	█ 0	█ 0	█ 0
Boron	ppm	█ <b>3</b>	█ 15	█ 31	█ 47

## 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:** 1100602  
**Signed:** Wes Davis  
**Report Date:** 02 May 2024



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## GRAPHS

