



# CONSTRUCTION EQUIPMENT

X59112 VOLVO L220H 3518 - DIESEL ENGINE



**Sample No:** VCP429327

**Oil Type:** {unknown}

**Job No:** X59112



## SAMPLE INFORMATION

Sample Number	<b>VCP429327</b>	VCP426048	---	---
Sample Date	<b>15 Jan 2024</b>	14 Nov 2023	---	---
Machine Hours	<b>1025</b>	508	---	---
Oil Hours	<b>0</b>	0	---	---
Oil Changed	<b>Changed</b>	Changed	---	---
Sample Status	<b>NORMAL</b>	ABNORMAL	---	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.1</b>	11.2	---	---
Base Number (BN)	mg KOH/g	<b>7.8</b>	5.7	---	---
Oxidation (PA)	%	<b>79</b>	58	---	---

## Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 30 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. 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.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	---	---
Soot %	%	<b>0.1</b>	0.1	---	---
Nitration (PA)	%	<b>58</b>	76	---	---
Sulfation (PA)	%	<b>61</b>	52	---	---
Glycol	%	<b>0.0</b>	NEG	---	---
Fuel	%	<b>&lt;1.0</b>	0.6	---	---
Silicon	ppm	<b>8</b>	22	---	---
Sodium	ppm	<b>3</b>	4	---	---
Potassium	ppm	<b>1</b>	4	---	---



## WEAR METALS

Iron	ppm	<b>6</b>	8	---	---
Copper	ppm	<b>46</b>	307	---	---
Lead	ppm	<b>&lt;1</b>	<1	---	---
Tin	ppm	<b>&lt;1</b>	1	---	---
Aluminum	ppm	<b>&lt;1</b>	3	---	---
Chromium	ppm	<b>0</b>	0	---	---
Molybdenum	ppm	<b>45</b>	79	---	---
Nickel	ppm	<b>0</b>	<1	---	---
Titanium	ppm	<b>0</b>	0	---	---
Silver	ppm	<b>0</b>	0	---	---
Manganese	ppm	<b>&lt;1</b>	2	---	---
Vanadium	ppm	<b>&lt;1</b>	0	---	---



## ADDITIVES

Calcium	ppm	<b>1704</b>	2122	---	---
Magnesium	ppm	<b>473</b>	15	---	---
Zinc	ppm	<b>1136</b>	1174	---	---
Phosphorus	ppm	<b>974</b>	983	---	---
Barium	ppm	<b>0</b>	0	---	---
Boron	ppm	<b>43</b>	47	---	---

**Depot:** SCOSAI  
**Unique No:** 10836654  
**Signed:** Wes Davis  
**Report Date:** 01 Feb 2024



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## GRAPHS

