



# CONSTRUCTION EQUIPMENT

SW-33739-2 STAKER VOLVO L220H 2927 - DIESEL ENGINE



**Sample No:** VCP395507  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** SW-33739-2 STAKER



## SAMPLE INFORMATION

Sample Number	<b>VCP395507</b>	VCP440869	VCP319419	---
Sample Date	<b>26 Apr 2024</b>	21 Feb 2024	13 Jul 2021	---
Machine Hours	<b>10925</b>	10446	7134	---
Oil Hours	<b>480</b>	500	900	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	---

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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.0</b>	13.3	12.2	---
Base Number (BN)	mg KOH/g	<b>6.8</b>	7.2	---	---
Oxidation (PA)	%	<b>51</b>	58	69	---

## 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.



## CONTAMINATION

Water	%	<b>NEG</b>	NEG	NEG	---
Soot %	%	<b>0.2</b>	0.1	0.4	---
Nitration (PA)	%	<b>57</b>	62	67	---
Sulfation (PA)	%	<b>51</b>	52	61	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	---
Silicon	ppm	<b>4</b>	9	4	---
Sodium	ppm	<b>&lt;1</b>	4	0	---
Potassium	ppm	<b>2</b>	2	<1	---



## WEAR METALS

Iron	ppm	<b>7</b>	9	6	---
Copper	ppm	<b>1</b>	2	2	---
Lead	ppm	<b>&lt;1</b>	1	<1	---
Tin	ppm	<b>&lt;1</b>	1	<1	---
Aluminum	ppm	<b>2</b>	4	0	---
Chromium	ppm	<b>&lt;1</b>	1	0	---
Molybdenum	ppm	<b>29</b>	95	24	---
Nickel	ppm	<b>&lt;1</b>	2	0	---
Titanium	ppm	<b>1</b>	<1	0	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	1	<1	---
Vanadium	ppm	<b>&lt;1</b>	<1	0	---



## ADDITIVES

Calcium	ppm	<b>1544</b>	2005	475	---
Magnesium	ppm	<b>310</b>	757	336	---
Zinc	ppm	<b>956</b>	1632	460	---
Phosphorus	ppm	<b>839</b>	1257	394	---
Barium	ppm	<b>0</b>	2	0	---
Boron	ppm	<b>22</b>	34	3	---

**Depot:** VOLVO8770  
**Unique No:** 11015845  
**Signed:** Wes Davis  
**Report Date:** 07 May 2024



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## GRAPHS

