



# CONSTRUCTION EQUIPMENT

688101 GERDAU VOLVO L350H 1206 - DIESEL ENGINE



**Sample No:** VCP438826  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 688101 GERDAU



## SAMPLE INFORMATION

Sample Number	<b>VCP438826</b>	VCP452379	VCP431432	---
Sample Date	<b>27 Mar 2024</b>	11 Jan 2024	27 Nov 2023	---
Machine Hours	<b>3172</b>	1726	903	---
Oil Hours	<b>500</b>	700	903	---
Oil Changed	<b>Changed</b>	Changed	Changed	---
Sample Status	<b>NORMAL</b>	ABNORMAL	ABNORMAL	---

**ALTA EQUIPMENT COMPANY - METRO WEST**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.5</b>	12.4	11.1	---
Base Number (BN)	mg KOH/g	<b>9.7</b>	8.4	6.5	---
Oxidation (PA)	%	<b>61</b>	76	64	---

## 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>	0.2	0.2	---
Nitration (PA)	%	<b>56</b>	59	72	---
Sulfation (PA)	%	<b>53</b>	59	55	---
Glycol	%	<b>NEG</b>	NEG	NEG	---
Fuel	%	<b>&lt;1.0</b>	<1.0	0.6	---
Silicon	ppm	<b>3</b>	11	33	---
Sodium	ppm	<b>1</b>	2	<1	---
Potassium	ppm	<b>3</b>	1	5	---



## WEAR METALS

Iron	ppm	<b>6</b>	12	17	---
Copper	ppm	<b>6</b>	116	428	---
Lead	ppm	<b>&lt;1</b>	1	0	---
Tin	ppm	<b>0</b>	1	3	---
Aluminum	ppm	<b>2</b>	2	1	---
Chromium	ppm	<b>0</b>	<1	<1	---
Molybdenum	ppm	<b>49</b>	46	86	---
Nickel	ppm	<b>2</b>	2	5	---
Titanium	ppm	<b>0</b>	<1	<1	---
Silver	ppm	<b>0</b>	0	0	---
Manganese	ppm	<b>&lt;1</b>	<1	<1	---
Vanadium	ppm	<b>&lt;1</b>	0	0	---



## ADDITIVES

Calcium	ppm	<b>1174</b>	1553	2053	---
Magnesium	ppm	<b>913</b>	539	57	---
Zinc	ppm	<b>1142</b>	1047	1113	---
Phosphorus	ppm	<b>1021</b>	853	942	---
Barium	ppm	<b>0</b>	0	3	---
Boron	ppm	<b>4</b>	28	55	---

**Depot:** VOLVO2990  
**Unique No:** 10968736  
**Signed:** Jonathan Hester  
**Report Date:** 12 Apr 2024



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## GRAPHS

