



# CONSTRUCTION EQUIPMENT

716086 GERDAU VOLVO L350H 1220 - DIESEL ENGINE



**Sample No:** VCP453552  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 716086 GERDAU



## SAMPLE INFORMATION

Sample Number	<b>VCP453552</b>	VCP434976	VCP407600	VCP411191
Sample Date	<b>15 May 2024</b>	14 Nov 2023	31 May 2023	03 May 2023
Machine Hours	<b>7316</b>	5623	3182	2659
Oil Hours	<b>1000</b>	500	500	1000
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>NORMAL</b>	NORMAL	NORMAL	NORMAL

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

Visc @ 100°C	cSt	<b>13.2</b>	13.0	14.2	13.2
Base Number (BN)	mg KOH/g	<b>6.9</b>	8.5	9.5	8.0
Oxidation (PA)	%	<b>78</b>	69	57	61

## 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	NEG
Soot %	%	<b>0.4</b>	0.4	0.3	0.4
Nitration (PA)	%	<b>80</b>	70	53	68
Sulfation (PA)	%	<b>61</b>	59	53	57
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>6</b>	3	3	3
Sodium	ppm	<b>3</b>	2	<1	2
Potassium	ppm	<b>6</b>	3	<1	<1



## WEAR METALS

Iron	ppm	<b>20</b>	6	6	10
Copper	ppm	<b>6</b>	3	2	8
Lead	ppm	<b>&lt;1</b>	0	0	<1
Tin	ppm	<b>1</b>	<1	<1	<1
Aluminum	ppm	<b>3</b>	<1	<1	0
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>59</b>	53	57	43
Nickel	ppm	<b>2</b>	<1	<1	1
Titanium	ppm	<b>0</b>	0	<1	0
Silver	ppm	<b>0</b>	0	0	0
Manganese	ppm	<b>1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>1267</b>	1087	1078	1026
Magnesium	ppm	<b>917</b>	845	980	679
Zinc	ppm	<b>1287</b>	1190	1264	991
Phosphorus	ppm	<b>1057</b>	987	999	810
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>10</b>	9	0	0

**Depot:** VOLVO2990  
**Unique No:** 11042535  
**Signed:** Jonathan Hester  
**Report Date:** 23 May 2024



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## GRAPHS

