



# CONSTRUCTION EQUIPMENT

## 580297 GLR VOLVO L70H 623923 - DIESEL ENGINE



**Sample No:** VCP416232  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 580297 GLR



### SAMPLE INFORMATION

Sample Number	<b>VCP416232</b>	VCP354610	VCP362599	VCP347825
Sample Date	<b>19 Jul 2023</b>	01 Jun 2022	05 Apr 2022	20 Jan 2022
Machine Hours	<b>7548</b>	4061	3385	2758
Oil Hours	<b>500</b>	500	500	500
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>14.7</b>	14.3	14.3	14.3
Base Number (BN)	mg KOH/g	<b>9.6</b>	9.4	10.4	10.2
Oxidation (PA)	%	<b>58</b>	60	62	62



### CONTAMINATION

Soot %	%	<b>0.6</b>	0.8	0.6	0.6
Nitration (PA)	%	<b>62</b>	68	73	66
Sulfation (PA)	%	<b>53</b>	54	56	56
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	<1.0
Silicon	ppm	<b>3</b>	4	4	3
Sodium	ppm	<b>2</b>	0	<1	<1
Potassium	ppm	<b>0</b>	1	<1	0

### 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.



### WEAR METALS

Iron	ppm	<b>8</b>	15	11	13
Copper	ppm	<b>5</b>	1	<1	<1
Lead	ppm	<b>0</b>	<1	1	0
Tin	ppm	<b>&lt;1</b>	<1	<1	<1
Aluminum	ppm	<b>1</b>	5	5	5
Chromium	ppm	<b>&lt;1</b>	1	1	<1
Molybdenum	ppm	<b>64</b>	64	56	60
Nickel	ppm	<b>0</b>	0	<1	0
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>0</b>	0	1	0
Manganese	ppm	<b>&lt;1</b>	<1	<1	0
Vanadium	ppm	<b>&lt;1</b>	0	0	0



### ADDITIVES

Calcium	ppm	<b>1180</b>	1130	1133	1178
Magnesium	ppm	<b>1075</b>	994	1059	1029
Zinc	ppm	<b>1348</b>	1318	1269	1330
Phosphorus	ppm	<b>1086</b>	1102	1136	1094
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>0</b>	<1	2	2

**Depot:** VOLVO2990  
**Unique No:** 10565400  
**Signed:** Don Baldrige  
**Report Date:** 25 Jul 2023



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## GRAPHS

