



# CONSTRUCTION EQUIPMENT

W07013549 VOLVO A35G 342021 - DIESEL ENGINE



**Sample No:** VCP414579  
**Oil Type:** MOBIL 15W40  
**Job No:** W07013549



## SAMPLE INFORMATION

Sample Number	<b>VCP414579</b>	VCP423662	VCP388173	VCP372996
Sample Date	<b>10 Oct 2023</b>	17 Apr 2023	17 Oct 2022	26 Jul 2022
Machine Hours	<b>7675</b>	0	6772	6269
Oil Hours	<b>500</b>	0	0	0
Oil Changed	<b>Changed</b>	N/A	Changed	Changed
Sample Status	<b>NORMAL</b>	ATTENTION	NORMAL	ATTENTION

**MCCLUNG-LOGAN EQUIPMENT CO - RICHMOND**  
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## OIL CONDITION

Visc @ 100°C	cSt	<b>12.8</b>	12.1	12.5	11.6
Base Number (BN)	mg KOH/g	<b>6.1</b>	6.1	8.8	5.7
Oxidation (PA)	%	<b>56</b>	65	72	49



## CONTAMINATION

Soot %	%	<b>0.2</b>	0.2	0.3	0.2
Nitration (PA)	%	<b>78</b>	73	88	75
Sulfation (PA)	%	<b>52</b>	49	59	59
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	1.4
Silicon	ppm	<b>5</b>	4	6	6
Sodium	ppm	<b>28</b>	1	4	2
Potassium	ppm	<b>6</b>	1	0	2

## 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>9</b>	9	7	9
Copper	ppm	<b>2</b>	11	1	1
Lead	ppm	<b>2</b>	<1	<1	<1
Tin	ppm	<b>1</b>	<1	<1	<1
Aluminum	ppm	<b>5</b>	0	2	2
Chromium	ppm	<b>&lt;1</b>	0	<1	<1
Molybdenum	ppm	<b>81</b>	60	45	17
Nickel	ppm	<b>&lt;1</b>	0	<1	0
Titanium	ppm	<b>0</b>	0	0	<1
Silver	ppm	<b>0</b>	0	0	<1
Manganese	ppm	<b>&lt;1</b>	<1	<1	<1
Vanadium	ppm	<b>0</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>2095</b>	1265	1245	1800
Magnesium	ppm	<b>112</b>	663	665	109
Zinc	ppm	<b>1225</b>	912	824	901
Phosphorus	ppm	<b>1007</b>	714	653	721
Barium	ppm	<b>0</b>	0	0	0
Boron	ppm	<b>36</b>	26	17	8

**Depot:** VOLVO8882  
**Unique No:** 10708829  
**Signed:** Wes Davis  
**Report Date:** 24 Oct 2023



# CONSTRUCTION EQUIPMENT



## VOLVO GRAPHS

