



# CONSTRUCTION EQUIPMENT

W02007605 VOLVO EC350 314038 - DIESEL ENGINE



**Sample No:** VCP416081  
**Oil Type:** MOBIL 15W40  
**Job No:** W02007605



## SAMPLE INFORMATION

Sample Number	<b>VCP416081</b>	VCP397758	VCP375628	VCP350714
Sample Date	<b>04 Oct 2023</b>	16 May 2023	23 Sep 2022	26 May 2022
Machine Hours	<b>3471</b>	2961	2483	1978
Oil Hours	<b>500</b>	500	500	500
Oil Changed	<b>Changed</b>	Changed	Changed	Changed
Sample Status	<b>ATTENTION</b>	ATTENTION	ATTENTION	ABNORMAL

**MCCLUNG-LOGAN EQUIPMENT CO - MANASSAS**  
8450 QUARRY ROAD  
MANASSAS, VA  
US 20110  
Contact: MIKE MAYHUGH  
MMAYHUGH@MCCLUNG-LOGAN.COM  
T: (703)393-7344  
F: (703)393-7844



## OIL CONDITION

Visc @ 100°C	cSt	<b>▲ 12.1</b>	▲ 12.2	▲ 12.2	▲ 11.9
Base Number (BN)	mg KOH/g	<b>■ 7.0</b>	■ 7.7	■ 8.4	■ 5.9
Oxidation (PA)	%	<b>66</b>	69	75	80



## CONTAMINATION

Soot %	%	<b>■ 0.1</b>	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	<b>68</b>	71	76	91
Sulfation (PA)	%	<b>60</b>	61	60	60
Glycol	%	<b>NEG</b>	NEG	NEG	NEG
Fuel	%	<b>&lt;1.0</b>	<1.0	<1.0	■ 1.1
Silicon	ppm	<b>■ 6</b>	■ 6	■ 4	■ 5
Sodium	ppm	<b>■ 2</b>	■ 1	■ 2	■ 3
Potassium	ppm	<b>■ 0</b>	■ 1	■ <1	■ <1



## WEAR METALS

Iron	ppm	<b>■ 4</b>	■ 4	■ 4	■ 5
Copper	ppm	<b>■ 1</b>	■ 2	■ 6	▲ 37
Lead	ppm	<b>■ 0</b>	■ 2	■ <1	■ <1
Tin	ppm	<b>■ &lt;1</b>	■ <1	■ 1	■ 1
Aluminum	ppm	<b>■ 3</b>	■ 2	■ <1	■ 1
Chromium	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Molybdenum	ppm	<b>■ 124</b>	■ 104	■ 51	■ 51
Nickel	ppm	<b>■ &lt;1</b>	■ 0	■ 0	■ <1
Titanium	ppm	<b>&lt;1</b>	0	0	0
Silver	ppm	<b>■ 0</b>	■ 0	0	<1
Manganese	ppm	<b>■ &lt;1</b>	■ <1	■ <1	■ <1
Vanadium	ppm	<b>&lt;1</b>	0	0	0



## ADDITIVES

Calcium	ppm	<b>■ 1495</b>	■ 1509	■ 1275	■ 1247
Magnesium	ppm	<b>■ 604</b>	■ 644	■ 771	■ 696
Zinc	ppm	<b>■ 800</b>	■ 927	■ 1117	■ 836
Phosphorus	ppm	<b>■ 688</b>	■ 784	■ 925	■ 594
Barium	ppm	<b>■ 0</b>	■ 0	■ 0	■ 0
Boron	ppm	<b>■ 221</b>	■ 202	■ 11	■ 23

## Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

**Depot:** VOLVO0002  
**Unique No:** 10696514  
**Signed:** Don Baldrige  
**Report Date:** 17 Oct 2023



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## GRAPHS

