



# CONSTRUCTION EQUIPMENT

## VOLVO EC350EL 310691 - DIESEL ENGINE



**Sample No:** VCP416417  
**Oil Type:** VALVOLINE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP416417	VCP401670	VCP370360	VCP354653
Sample Date	28 Nov 2023	01 Apr 2023	09 Feb 2023	03 Oct 2022
Machine Hours	6049	5659	5415	5120
Oil Hours	0	244	0	250
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	ATTENTION

**CITY CARTING**  
 221 OLD GATE LN  
 MILFORD, CT  
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### OIL CONDITION

Visc @ 100°C	cSt	12.5	11.7	11.2	9.4
Base Number (BN)	mg KOH/g	9.7	6.1	7.0	7.1
Oxidation (PA)	%	78	41	55	37

### 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	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.5	0.1
Nitration (PA)	%	52	56	73	58
Sulfation (PA)	%	59	47	52	46
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.8	<1.0	0.7
Silicon	ppm	6	5	8	9
Sodium	ppm	0	0	2	3
Potassium	ppm	<1	0	0	0



### WEAR METALS

Iron	ppm	3	5	4	3
Copper	ppm	<1	0	<1	1
Lead	ppm	0	0	<1	<1
Tin	ppm	0	0	<1	1
Aluminum	ppm	1	0	2	1
Chromium	ppm	<1	0	<1	1
Molybdenum	ppm	38	34	75	51
Nickel	ppm	0	0	0	1
Titanium	ppm	0	0	0	1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	1



### ADDITIVES

Calcium	ppm	1613	1871	1930	1983
Magnesium	ppm	428	138	104	95
Zinc	ppm	1025	1030	1040	1003
Phosphorus	ppm	842	804	883	849
Barium	ppm	2	0	0	<1
Boron	ppm	54	17	75	47

**Depot:** CITMILCON  
**Unique No:** 10776000  
**Signed:** Wes Davis  
**Report Date:** 07 Dec 2023



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## VOLVO GRAPHS

