



# CONSTRUCTION EQUIPMENT

## 621739 VOLVO EC750 310137 - DIESEL ENGINE



**Sample No:** VCP431437  
**Oil Type:** VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3  
**Job No:** 621739



### SAMPLE INFORMATION

Sample Number	VCP431437	VCP416237	VCP365879	VCP373410
Sample Date	30 Nov 2023	24 Jul 2023	12 Sep 2022	25 Jul 2022
Machine Hours	6059	5578	5083	4700
Oil Hours	500	500	500	606
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ATTENTION

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### OIL CONDITION

Visc @ 100°C	cSt	13.0	12.3	9.8	10.6
Base Number (BN)	mg KOH/g	7.5	9.3	6.6	6.7
Oxidation (PA)	%	69	82	67	77

### 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 %	%	0.7	0.4	0.4	0.7
Nitration (PA)	%	82	60	60	71
Sulfation (PA)	%	60	63	64	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	8	3	4
Sodium	ppm	0	4	2	0
Potassium	ppm	2	<1	0	1

### WEAR METALS

Iron	ppm	17	12	8	13
Copper	ppm	4	10	8	6
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	1	<1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	47	41	32	32
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	<1	0	0

### ADDITIVES

Calcium	ppm	1115	1656	1077	1377
Magnesium	ppm	833	513	532	439
Zinc	ppm	1081	1102	1011	1017
Phosphorus	ppm	905	904	771	805
Barium	ppm	3	0	0	0
Boron	ppm	14	59	2	18

**Depot:** BLADET  
**Unique No:** 10778844  
**Signed:** Don Baldrige  
**Report Date:** 11 Dec 2023



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## GRAPHS

