

# CONSTRUCTION EQUIPMENT 715570 VOLVO ECR145EL 315939 - DIESEL ENGINE



Sample No: VCP437943

Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3

**Job No:** 715570

VOLVO	E INFORMATION				
_	LIMIUMMATION	VCD 4270 42	\(CD202562	VCD206404	
Sample Number		VCP437943	VCP393563	VCP386104	
Sample Date		14 Jun 2024	28 Apr 2023	12 Sep 2022	
Machine Hours		2070	1009	495	
Oil Hours		500	500	495	
Oil Changed		Changed	Changed	Changed	
Sample Status		ABNORMAL	NORMAL	NORMAL	
VOLVO					
OIL CON	IDITION				
Visc @ 100°C	cSt	<b>12.8</b>	<b>12.6</b>	□13.2	
Base Number (BN	N) mg KOH/g	<b>■</b> 10.6	10.0	■8.1	
Oxidation (PA)	%	81	81	45	
VOLVO	MINATION				
_	MINATION				
Water	%	NEG	NEG	NEG	
Soot %	%	■ 0.3	□ 0.2	□ 0.2	
Nitration (PA)	%	68	59	63	
Sulfation (PA)	%	60	62	50	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	<b>17</b>	<b>7</b>	■16	
Sodium	ppm	<b>4</b>	<b>3</b>	<b>2</b>	
Potassium	ppm	<b>■</b> <1	■3	<b>4</b>	
VOLVO					
WEAR N	METALS				
ron	ppm	<b>52</b>	<b>1</b> 1	<b>□</b> 18	
Copper	ppm	<b>■3</b> 2	2	12	
Lead	ppm	■0	<b>1</b> <1	<1	
Tin	ppm	<b>0</b>	1	1	
Aluminum	ppm	<u>▲</u> 12	<b>1</b> 5	<b>6</b>	
Chromium	ppm	2	1	1	
Molybdenum	ppm	■36	□34	■8	
Nickel	ppm	■0	2	■8	
Titanium	ppm	0	0	0	
Silver	ppm	<b>■</b> 0	<1	0	
Manganese	ppm	<b>■</b> <1	<1	<b>2</b>	
Vanadium	ppm	0	<1	0	
VOLVO	VICE .				
ADDITIV	VEZ				
Calcium	ppm	<b>1952</b>	□1660	■2126	
Magnesium	ppm	<b>460</b>	<b>460</b>	<b>137</b>	
_·					

**1141** 

**1036** 

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#### **RIPA AND ASSOCIATES**

10149 FISHER AVENUE TAMPA, FL US 33619 Contact: PM Services PMServices@ripaconstruction.com T: F:

### 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. The aluminum level is abnormal. All other 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 acceptable for the time in service.

Depot:RIPTAMUnique No:11126335Signed:Sean FeltonReport Date:18 Jul 2024

Contact/Location: PM Services ? - RIPTAM

ppm

ppm

ppm

ppm

**1121** 

**984** 

**0** 

**39** 

Zinc

Barium

Boron

Phosphorus



## **CONSTRUCTION EQUIPMENT**





