

CONSTRUCTION EQUIPMENT VOLVO ECR145E 312070 - DIESEL ENGINE



Sample No: VCP426230

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

Job No:

Barium

Boron

JOD NO:					
VOLVO					
SAMPLE II	NFORMATION				
Sample Number	-	VCP426230	VCP393624	VCP265622	
Sample Date		25 Sep 2023	29 Nov 2022	31 Aug 2020	
Machine Hours		1654	1137	462	
Oil Hours		0	0	462	
Oil Changed		Changed	N/A	Changed	
Sample Status		ABNORMAL	ABNORMAL	ABNORMAL	
OIL CONDI	TION				
Visc @ 100°C	cSt	13.4	□13.2	□ 13.0	
Base Number (BN)		9.5	9.7		
Oxidation (PA)	%	88	97	59	
Oxidation (17t)	70	00	31	33	
CONTAMIN	NATION				
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Soot %	%	■ 0.5	□ 0.2	□ 0.2	
Nitration (PA)	%	77	70	53	
Sulfation (PA)	%	64	77	51	
Glycol	%	NEG	NEG	NEG	
Fuel	%	<1.0	<1.0	<1.0	
Silicon	ppm	15	1 3	□ 18	
Sodium	ppm	■ 6	<1	4	
Potassium	ppm	■ 3	2	□ 0	
WEAR ME	TALS				
Iron	ppm	7 6	7 2	<u>56</u>	
Copper	ppm	<u> </u>	6	11	
Lead	ppm	1	□0	<u></u> <1	
Tin	ppm	<u> </u>	- <1	<u> </u>	
Aluminum	ppm	1 3	1 4	△ 37	
Chromium	ppm	■ 3	3	5	
Molybdenum	ppm	■ 50	1 40	3	
Nickel	ppm	1	0	 12	
Titanium	ppm	<1	0	<1	
Silver	ppm	0	0	0	
Manganese	ppm	2	<u> </u>	5	
Vanadium	ppm	<1	0	0	
ADDITIVES					
Calcium		1584	□ 1811	2 463	
Magnesium	ppm	498	481	56	
Zinc	ppm	1091	1103	1195	
	ppm				
Phosphorus	ppm	954	■946	■988	

0

49

0



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 has decreased, but is still 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:10723679Signed:Don BaldridgeReport Date:03 Nov 2023

ppm

ppm

0



CONSTRUCTION EQUIPMENT





