



CONSTRUCTION EQUIPMENT

19436 BALFOUR BEATTY VOLVO EC250E 316215 - DIESEL ENGINE



Sample No: VCP417107
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 19436 BALFOUR BEATTY



SAMPLE INFORMATION

Sample Number	VCP417107	VCP410177	VCP383316	---
Sample Date	11 Sep 2023	03 May 2023	10 Feb 2023	---
Machine Hours	2011	1511	1190	---
Oil Hours	500	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

117 - ASCENDUM MACHINERY INC - GREENVILLE
 2002 N GREENE ST
 GREENVILLE, NC
 US 27834
 Contact: BRANDON JENKINS
 BRANDON.JENKINS@ASCENDUMMACHINERY.COM
 T:
 F: (704)494-8197



OIL CONDITION

Visc @ 100°C	cSt	12.9	13.7	13.0	---
Base Number (BN)	mg KOH/g	10.6	8.4	10.5	---
Oxidation (PA)	%	78	53	80	---

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

Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	51	42	56	---
Sulfation (PA)	%	61	45	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	5	4	5	---
Sodium	ppm	3	1	2	---
Potassium	ppm	9	4	9	---



WEAR METALS

Iron	ppm	5	3	6	---
Copper	ppm	6	8	63	---
Lead	ppm	0	0	<1	---
Tin	ppm	<1	<1	0	---
Aluminum	ppm	7	1	4	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	45	62	47	---
Nickel	ppm	<1	<1	0	---
Titanium	ppm	0	0	0	---
Silver	ppm	<1	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1716	1243	1736	---
Magnesium	ppm	620	961	476	---
Zinc	ppm	1236	1323	1125	---
Phosphorus	ppm	1017	1044	888	---
Barium	ppm	0	0	0	---
Boron	ppm	42	14	47	---

Depot: VOLVO8769
Unique No: 10647166
Signed: Wes Davis
Report Date: 16 Sep 2023



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GRAPHS

