



CONSTRUCTION EQUIPMENT

607843 RE BECKNER VOLVO EC350EL 314069 - DIESEL ENGINE



Sample No: VCP426258
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 607843 RE BECKNER



SAMPLE INFORMATION

Sample Number	VCP426258	VCP379620	VCP378029	VCP332836
Sample Date	28 Sep 2023	04 Jan 2023	07 Jul 2022	18 Feb 2022
Machine Hours	4493	3433	2711	2174
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ATTENTION	ATTENTION	NORMAL

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	12.8	11.5	12.3	12.6
Base Number (BN)	mg KOH/g	7.3	8.7	11.2	10.3
Oxidation (PA)	%	42	59	86	88



CONTAMINATION

Soot %	%	0	0.1	0.1	0.1
Nitration (PA)	%	56	68	68	71
Sulfation (PA)	%	45	52	65	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	1.8	<1.0
Silicon	ppm	3	3	4	5
Sodium	ppm	2	2	0	2
Potassium	ppm	1	0	1	0



WEAR METALS

Iron	ppm	0	4	3	4
Copper	ppm	4	3	2	5
Lead	ppm	1	<1	<1	2
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	<1	1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	39	59	40	39
Nickel	ppm	<1	0	0	0
Titanium	ppm	0	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	2248	1139	1827	1809
Magnesium	ppm	36	902	460	485
Zinc	ppm	1202	1206	1111	1019
Phosphorus	ppm	993	1012	940	923
Barium	ppm	0	0	0	0
Boron	ppm	31	3	42	33

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.

Depot: VOLVO0093
Unique No: 10708812
Signed: Wes Davis
Report Date: 24 Oct 2023



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VOLVO GRAPHS

