



CONSTRUCTION EQUIPMENT

W14767 VOLVO EC750 310197 - DIESEL ENGINE



Sample No: VCP441225
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W14767



SAMPLE INFORMATION

Sample Number	VCP441225	VCP404682	VCP411476	VCP385636
Sample Date	13 Oct 2023	19 Jul 2023	18 Apr 2023	29 Dec 2022
Machine Hours	8054	7569	7030	6527
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

HOUSBY HEAVY EQUIPMENT, LLC
 4410 SE 4 MILE DR
 ANKENY, IA
 US 50021
 Contact: RANDY VANDERLEEST
 rvanderleest@housby.com
 T:
 F: (515)964-2865



OIL CONDITION

Visc @ 100°C	cSt	13.2	13.4	13.1	13.2
Base Number (BN)	mg KOH/g	8.0	8.3	9.2	8.9
Oxidation (PA)	%	81	88	85	82



CONTAMINATION

Soot %	%	0.7	0.7	0.6	0.7
Nitration (PA)	%	73	82	69	66
Sulfation (PA)	%	62	64	64	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	11	9	4
Sodium	ppm	2	4	7	8
Potassium	ppm	2	3	7	8



WEAR METALS

Iron	ppm	8	22	39	10
Copper	ppm	<1	<1	3	1
Lead	ppm	2	4	1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	4	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	50	45	41
Nickel	ppm	<1	<1	1	2
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1622	1808	1653	1691
Magnesium	ppm	593	667	568	513
Zinc	ppm	1221	1133	1040	828
Phosphorus	ppm	1000	898	821	725
Barium	ppm	0	0	0	0
Boron	ppm	20	26	37	31

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: VOLVO0080
Unique No: 10701657
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

