



CONSTRUCTION EQUIPMENT

W14366 VOLVO EC750 310197 - DIESEL ENGINE



Sample No: VCP404682
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: W14366



SAMPLE INFORMATION

Sample Number	VCP404682	VCP411476	VCP385636	VCP384064
Sample Date	19 Jul 2023	18 Apr 2023	29 Dec 2022	06 Oct 2022
Machine Hours	7569	7030	6527	6064
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.1	13.2	13.3
Base Number (BN)	mg KOH/g	8.3	9.2	8.9	10.4
Oxidation (PA)	%	88	85	82	91



CONTAMINATION

Soot %	%	0.7	0.6	0.7	1.2
Nitration (PA)	%	82	69	66	79
Sulfation (PA)	%	64	64	63	72
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	9	4	6
Sodium	ppm	4	7	8	26
Potassium	ppm	3	7	8	▲ 41



WEAR METALS

Iron	ppm	22	39	10	12
Copper	ppm	<1	3	1	2
Lead	ppm	4	1	1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	4	2	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	50	45	41	45
Nickel	ppm	<1	1	2	1
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1808	1653	1691	1730
Magnesium	ppm	667	568	513	539
Zinc	ppm	1133	1040	828	1117
Phosphorus	ppm	898	821	725	888
Barium	ppm	0	0	0	0
Boron	ppm	26	37	31	21

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: 10574160
Signed: Wes Davis
Report Date: 27 Jul 2023



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GRAPHS

