



CONSTRUCTION EQUIPMENT

W0200775 VOLVO EC300E 313213 - DIESEL ENGINE



Sample No: VCP420838
Oil Type: MOBIL 15W40
Job No: W02007775



SAMPLE INFORMATION

Sample Number	VCP420838	VCP425216	VCP397877	VCP397763
Sample Date	22 Nov 2023	05 Sep 2023	12 Apr 2023	30 Jan 2023
Machine Hours	6028	5504	4672	4233
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	13.1	13.0	12.7	▲ 12.3
Base Number (BN)	mg KOH/g	8.8	8.0	7.5	9.2
Oxidation (PA)	%	69	67	64	66

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.1	0.1
Nitration (PA)	%	63	71	56	59
Sulfation (PA)	%	64	60	56	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.2
Silicon	ppm	7	10	5	6
Sodium	ppm	2	2	2	1
Potassium	ppm	3	7	2	2



WEAR METALS

Iron	ppm	5	11	6	6
Copper	ppm	<1	1	<1	1
Lead	ppm	<1	3	0	<1
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	6	5	4	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	118	116	110	65
Nickel	ppm	1	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1514	1657	1542	1403
Magnesium	ppm	666	641	661	659
Zinc	ppm	858	918	898	1097
Phosphorus	ppm	774	767	750	863
Barium	ppm	0	0	0	0
Boron	ppm	286	194	302	87

Depot: VOLVO0002
Unique No: 10756827
Signed: Sean Felton
Report Date: 29 Nov 2023



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GRAPHS

