



CONSTRUCTION EQUIPMENT

W02007528 VOLVO EC300E 313213 - DIESEL ENGINE



Sample No: VCP425216
Oil Type: MOBIL 15W40
Job No: W02007528



SAMPLE INFORMATION

Sample Number	VCP425216	VCP397877	VCP397763	VCP377803
Sample Date	05 Sep 2023	12 Apr 2023	30 Jan 2023	01 Sep 2022
Machine Hours	5504	4672	4233	3716
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	█ 13.0	█ 12.7	▲ 12.3	█ 13.1
Base Number (BN)	mg KOH/g	█ 8.0	█ 7.5	█ 9.2	█ 10.3
Oxidation (PA)	%	67	64	66	65

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



WEAR METALS

Iron	ppm	█ 11	█ 6	█ 6	█ 6
Copper	ppm	█ 1	█ <1	█ 1	█ 1
Lead	ppm	█ 3	█ 0	█ <1	█ <1
Tin	ppm	█ 1	█ <1	█ <1	█ <1
Aluminum	ppm	█ 5	█ 4	█ 3	█ 5
Chromium	ppm	█ <1	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 116	█ 110	█ 65	█ 53
Nickel	ppm	█ <1	█ <1	█ 0	█ <1
Titanium	ppm	<1	0	0	0
Silver	ppm	█ 0	█ 0	█ 0	<1
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	█ 1657	█ 1542	█ 1403	█ 1192
Magnesium	ppm	█ 641	█ 661	█ 659	█ 841
Zinc	ppm	█ 918	█ 898	█ 1097	█ 1146
Phosphorus	ppm	█ 767	█ 750	█ 863	█ 968
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 194	█ 302	█ 87	█ 13

Depot: VOLVO0002
Unique No: 10646593
Signed: Jonathan Hester
Report Date: 18 Sep 2023



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VOLVO GRAPHS

