



CONSTRUCTION EQUIPMENT

SPM580906 VOLVO EC380EL 311492 - DIESEL ENGINE



Sample No: VCP414191
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM580906



SAMPLE INFORMATION

Sample Number	VCP414191	VCP396788	VCP403426	VCP365868
Sample Date	21 Jul 2023	15 May 2023	22 Feb 2023	05 Dec 2022
Machine Hours	7780	7477	6944	6455
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	13.1	12.5	12.3	12.3
Base Number (BN)	mg KOH/g	9.0	7.9	8.2	9.2
Oxidation (PA)	%	57	59	57	63



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	56	65	67	72
Sulfation (PA)	%	51	53	51	56
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	<1	2	2	4
Sodium	ppm	0	1	<1	1
Potassium	ppm	1	<1	1	0



WEAR METALS

Iron	ppm	2	3	4	3
Copper	ppm	1	2	3	2
Lead	ppm	<1	<1	<1	1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	0	<1	1	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	61	58	58	58
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1057	1085	1073	1049
Magnesium	ppm	916	873	910	931
Zinc	ppm	1220	1249	1235	1251
Phosphorus	ppm	1026	956	1022	989
Barium	ppm	2	0	0	0
Boron	ppm	<1	32	0	1



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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: BELBOU
Unique No: 10586135
Signed: Wes Davis
Report Date: 03 Aug 2023



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GRAPHS

