



CONSTRUCTION EQUIPMENT

SPM605726 BL DUKE SENNOBOGEN 835M 835.0.2625 - DIESEL ENGINE



Sample No: VCP415212
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM605726 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP415212	VCP380840	VCP378777	VCP354525
Sample Date	12 Sep 2023	17 Feb 2023	29 Aug 2022	13 Apr 2022
Machine Hours	4620	3163	1882	1220
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	▲ 12.2	■ 13.2	▲ 12.3
Base Number (BN)	mg KOH/g	■ 5.2	■ 9.2	■ 11.6	■ 7.6
Oxidation (PA)	%	128	78	80	104



CONTAMINATION

Soot %	%	■ 0.2	■ 0.3	■ 0.1	■ 0.3
Nitration (PA)	%	91	68	57	115
Sulfation (PA)	%	75	63	64	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 7.9	▲ 6.3	<1.0	▲ 2.7
Silicon	ppm	■ 3	■ 10	■ 5	■ 7
Sodium	ppm	■ 3	■ 0	■ 3	■ 9
Potassium	ppm	■ 10	■ 2	■ 7	■ 68



WEAR METALS

Iron	ppm	■ 14	■ 13	■ 6	■ 45
Copper	ppm	■ <1	■ 208	■ 3	■ 63
Lead	ppm	■ 0	■ 1	■ 0	■ 0
Tin	ppm	■ <1	■ 2	■ <1	■ 1
Aluminum	ppm	■ 3	■ 2	■ 3	23
Chromium	ppm	■ <1	■ <1	■ <1	■ 1
Molybdenum	ppm	■ 54	■ 47	■ 36	■ 64
Nickel	ppm	■ <1	■ 3	■ <1	■ <1
Titanium	ppm	■ 0	■ 0	■ 0	■ <1
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ <1	■ <1	■ <1	■ 1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1036	■ 1707	■ 1439	■ 1459
Magnesium	ppm	■ 881	■ 425	■ 551	■ 691
Zinc	ppm	■ 1149	■ 1065	■ 1171	■ 882
Phosphorus	ppm	■ 896	■ 908	■ 974	■ 747
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 4	■ 43	■ 69	■ 85

Diagnosis

We advise that you check the fuel injection system. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The BN result indicates that there is suitable alkalinity remaining in the oil.

Depot: VOLVO8885
Unique No: 10658036
Signed: Don Baldrige
Report Date: 22 Sep 2023



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GRAPHS

