



CONSTRUCTION EQUIPMENT

SPM525428 BL DUKE SENNEBOGEN 835ME 835.0.2813 - DIESEL ENGINE



Sample No: VCP404349
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM525428 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP404349	VCP400454	VCP365795	VCP375892
Sample Date	01 Mar 2023	04 Jan 2023	19 Oct 2022	01 Jul 2022
Machine Hours	4525	4103	3722	3021
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	NORMAL	MARGINAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 12.3	■ 13.1	■ 13.4
Base Number (BN)	mg KOH/g	■ 7.8	■ 8.5	■ 6	■ 9.3
Oxidation (PA)	%	86	85	131	91

CONTAMINATION

Soot %	%	■ 0.3	■ 0.2	■ 0.3	■ 0.2
Nitration (PA)	%	82	81	110	86
Sulfation (PA)	%	61	60	80	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 6.4	▲ 4.6	<1.0	▲ 2.1
Silicon	ppm	■ 2	■ 2	■ 6	■ 3
Sodium	ppm	■ 0	■ 0	■ 2	■ 0
Potassium	ppm	■ 2	■ 0	■ 13	■ 6

WEAR METALS

Iron	ppm	■ 19	■ 5	■ 22	■ 7
Copper	ppm	■ <1	■ <1	■ 1	■ <1
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ <1
Aluminum	ppm	■ 2	■ <1	■ 6	■ 3
Chromium	ppm	■ <1	■ <1	■ 1	■ <1
Molybdenum	ppm	■ 53	■ 57	■ 64	■ 64
Nickel	ppm	■ <1	■ 0	■ <1	■ 0
Titanium	ppm	■ <1	■ 0	■ 0	■ 0
Silver	ppm	■ 0	■ 0	■ <1	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	■ 0	■ 0	■ <1	■ 0

ADDITIVES

Calcium	ppm	■ 964	■ 990	■ 1096	■ 1110
Magnesium	ppm	■ 829	■ 888	■ 956	■ 930
Zinc	ppm	■ 1108	■ 1112	■ 1239	■ 1243
Phosphorus	ppm	■ 898	■ 918	■ 940	■ 1027
Barium	ppm	■ 0	■ 0	■ 2	■ 0
Boron	ppm	■ <1	■ 0	■ 2	■ 2

Diagnosis

The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO8885
Unique No: 10377914
Signed: Wes Davis
Report Date: 20 Mar 2023



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VOLVO GRAPHS

