



CONSTRUCTION EQUIPMENT

SPM621705 BL DUKE SENNOBOGEN 835M 835.0.2625 - DIESEL ENGINE



Sample No: VCP425313
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM621705 BL DUKE



SAMPLE INFORMATION

Sample Number	VCP425313	VCP415212	VCP380840	VCP378777
Sample Date	18 Oct 2023	12 Sep 2023	17 Feb 2023	29 Aug 2022
Machine Hours	4991	4620	3163	1882
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	MARGINAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	11.7	12.2	13.2
Base Number (BN)	mg KOH/g	7.9	5.2	9.2	11.6
Oxidation (PA)	%	88	128	78	80

Diagnosis

The oil change at the time of sampling has been noted. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected 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 %	%	0.1	0.2	0.3	0.1
Nitration (PA)	%	63	91	68	57
Sulfation (PA)	%	60	75	63	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	4.2	7.9	6.3	<1.0
Silicon	ppm	3	3	10	5
Sodium	ppm	2	3	0	3
Potassium	ppm	4	10	2	7



WEAR METALS

Iron	ppm	4	14	13	6
Copper	ppm	<1	<1	208	3
Lead	ppm	0	0	1	0
Tin	ppm	0	<1	2	<1
Aluminum	ppm	3	3	2	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	54	54	47	36
Nickel	ppm	0	<1	3	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	939	1036	1707	1439
Magnesium	ppm	851	881	425	551
Zinc	ppm	1126	1149	1065	1171
Phosphorus	ppm	934	896	908	974
Barium	ppm	7	0	0	0
Boron	ppm	0	4	43	69

Depot: VOLVO8885
Unique No: 10737814
Signed: Wes Davis
Report Date: 13 Nov 2023



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GRAPHS

