



CONSTRUCTION EQUIPMENT

SPM715564 ALTER ROCK SENNEBOGEN 835ME 835.0.2938 - DIESEL ENGINE



Sample No: VCP446960
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM715564 ALTER ROCK



SAMPLE INFORMATION

Sample Number	VCP446960	VCP350320	VCP433443	VCP400501
Sample Date	10 May 2024	27 Feb 2024	16 Nov 2023	10 Aug 2023
Machine Hours	5299	4783	4188	3684
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	11.6	13.1	13.0
Base Number (BN)	mg KOH/g	7.6	6.0	8.2	7.5
Oxidation (PA)	%	66	76	65	70

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.2	0.2	0.2
Nitration (PA)	%	63	68	63	73
Sulfation (PA)	%	56	60	56	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	3.3	<1.0	<1.0
Silicon	ppm	3	3	3	3
Sodium	ppm	1	1	4	2
Potassium	ppm	3	2	<1	5

Diagnosis

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 no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

WEAR METALS

Iron	ppm	7	12	12	18
Copper	ppm	<1	1	1	1
Lead	ppm	1	1	0	0
Tin	ppm	<1	0	0	<1
Aluminum	ppm	2	2	3	3
Chromium	ppm	<1	<1	0	1
Molybdenum	ppm	61	54	60	59
Nickel	ppm	0	0	0	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	<1	<1	0	<1

ADDITIVES

Calcium	ppm	1228	1075	1279	1089
Magnesium	ppm	1043	970	835	1002
Zinc	ppm	1298	1176	1203	1158
Phosphorus	ppm	1152	1029	1005	949
Barium	ppm	0	0	0	0
Boron	ppm	8	0	15	<1

Depot: VOLVO8885
Unique No: 11057210
Signed: Sean Felton
Report Date: 31 May 2024



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VOLVO GRAPHS

