



CONSTRUCTION EQUIPMENT

SPM634013 ALTER S BE SENNEBOGEN 840E 840.0.2195 - DIESEL ENGINE



Sample No: VCP433391
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM634013 ALTER S BE



SAMPLE INFORMATION

Sample Number	VCP433391	VCP424693	VCP400563	VCP351988
Sample Date	17 Nov 2023	19 Jul 2023	04 Apr 2023	30 Dec 2021
Machine Hours	10000	9498	8847	5443
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	ATTENTION	SEVERE

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OIL CONDITION

Visc @ 100°C	cSt	13.7	13.5	11.2	▲ 10.2
Base Number (BN)	mg KOH/g	8.5	6.7	5.0	9.7
Oxidation (PA)	%	69	70	73	93

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	66	70	64	82
Sulfation (PA)	%	55	54	55	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	▲ 4.1	13.3
Silicon	ppm	9	2	3	6
Sodium	ppm	4	0	0	2
Potassium	ppm	<1	3	2	3

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.

WEAR METALS

Iron	ppm	30	7	8	11
Copper	ppm	12	1	2	2
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	8	1	0	4
Chromium	ppm	1	<1	<1	<1
Molybdenum	ppm	53	60	52	36
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1736	1061	▲ 1020	1478
Magnesium	ppm	617	903	810	426
Zinc	ppm	1339	1196	1077	934
Phosphorus	ppm	1067	971	897	792
Barium	ppm	0	0	2	0
Boron	ppm	17	0	▲ 3	45

Depot: VOLVO5055
Unique No: 10777248
Signed: Wes Davis
Report Date: 08 Dec 2023



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GRAPHS

