



CONSTRUCTION EQUIPMENT

SPM646182 ALTER S BE SENNEBOGEN 840E 840.0.2350 - DIESEL ENGINE



Sample No: VCP433449
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM646182 ALTER S BE



SAMPLE INFORMATION

Sample Number	VCP433449	VCP387101	VCP419217	VCP396899
Sample Date	11 Dec 2023	02 Aug 2023	30 May 2023	14 Apr 2023
Machine Hours	3459	2444	1950	1575
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.9	14.0	13.4
Base Number (BN)	mg KOH/g	8.3	8.5	9.3	7.9
Oxidation (PA)	%	64	61	62	63

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.

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.1
Nitration (PA)	%	63	61	58	63
Sulfation (PA)	%	54	52	54	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	2	2	3
Sodium	ppm	0	0	0	0
Potassium	ppm	3	13	4	5

WEAR METALS

Iron	ppm	3	6	6	7
Copper	ppm	<1	<1	<1	1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	2	5	0	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	56	60	58	52
Nickel	ppm	0	<1	0	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	<1	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	983	1047	1040	1050
Magnesium	ppm	940	910	848	908
Zinc	ppm	1238	1198	1146	1226
Phosphorus	ppm	943	1003	966	958
Barium	ppm	0	0	0	0
Boron	ppm	0	0	0	4

Depot: VOLVO5055
Unique No: 10792849
Signed: Wes Davis
Report Date: 19 Dec 2023



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VOLVO GRAPHS

