



CONSTRUCTION EQUIPMENT

SPM594467 ALTER RKFD SENNEBOGEN 840 840.0.2192 - DIESEL ENGINE



Sample No: VCP400507
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM594467 ALTER RKFD



SAMPLE INFORMATION

Sample Number	VCP400507	VCP399746	VCP327573	VCP219753
Sample Date	15 Aug 2023	30 Mar 2023	06 Oct 2021	01 Feb 2021
Machine Hours	12681	11146	5724	3486
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	NORMAL	MARGINAL	MARGINAL	SEVERE

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OIL CONDITION

Visc @ 100°C	cSt	13.1	12.3	12.9	▲ 11.1
Base Number (BN)	mg KOH/g	10.1	6.3	---	---
Oxidation (PA)	%	88	77	95	92

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

Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	71	73	87	85
Sulfation (PA)	%	64	54	66	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	▲ 2.9	▲ 2.0	● 9.3
Silicon	ppm	4	3	4	5
Sodium	ppm	1	0	0	2
Potassium	ppm	2	2	11	8



WEAR METALS

Iron	ppm	5	11	9	19
Copper	ppm	<1	1	1	3
Lead	ppm	0	0	0	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	1	0	4	5
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	43	56	44	89
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1621	1043	1825	1534
Magnesium	ppm	564	856	488	471
Zinc	ppm	1095	1156	1144	872
Phosphorus	ppm	889	914	971	700
Barium	ppm	2	2	<1	0
Boron	ppm	33	1	29	135

Depot: VOLVO5055
Unique No: 10633968
Signed: Wes Davis
Report Date: 07 Sep 2023



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GRAPHS

