



CONSTRUCTION EQUIPMENT

1082 SIMS SAC SENNEBOGEN 835E 835.5.2560 - DIESEL ENGINE



Sample No: VCP424182
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1082 SIMS SAC



SAMPLE INFORMATION

Sample Number	VCP424182	VCP378793	VCP307482	---
Sample Date	21 Oct 2023	08 Oct 2022	10 Jun 2021	---
Machine Hours	7086	5510	3312	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Not Changd	Not Changd	---
Sample Status	NORMAL	NORMAL	NORMAL	---

VCES- VOLVO CONSTRUCTION EQUIPMENT

8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826

Contact: RAY KRANZUSCH
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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	13.1	---
Base Number (BN)	mg KOH/g	6.5	5.1	---	---
Oxidation (PA)	%	122	153	117	---

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	0.3	0.2	---
Nitration (PA)	%	105	123	99	---
Sulfation (PA)	%	73	86	74	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	5	---
Sodium	ppm	3	3	2	---
Potassium	ppm	2	10	9	---



WEAR METALS

Iron	ppm	14	31	14	---
Copper	ppm	2	3	2	---
Lead	ppm	0	<1	<1	---
Tin	ppm	<1	<1	<1	---
Aluminum	ppm	2	6	4	---
Chromium	ppm	<1	1	<1	---
Molybdenum	ppm	41	43	41	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1797	1913	1693	---
Magnesium	ppm	532	553	517	---
Zinc	ppm	1215	1203	1083	---
Phosphorus	ppm	903	931	907	---
Barium	ppm	0	0	0	---
Boron	ppm	29	34	39	---

Depot: VOLVO4485
Unique No: 10736465
Signed: Sean Felton
Report Date: 10 Nov 2023



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GRAPHS

