



CONSTRUCTION EQUIPMENT

1202 SIMS STOCKTON SENNEBOGEN 835 835.0.2356 - DIESEL ENGINE



Sample No: VCP442140
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 1202 SIMS STOCKTON



SAMPLE INFORMATION

Sample Number	VCP442140	VCP400960	VCP390381	---
Sample Date	28 Oct 2023	27 Apr 2023	17 Dec 2022	---
Machine Hours	10206	9208	8559	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	NORMAL	---

VCES- VOLVO CONSTRUCTION EQUIPMENT

8594 FRUITRIDGE ROAD
 SACRAMENTO, CA
 US 95826
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 T:
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OIL CONDITION

Visc @ 100°C	cSt	13.3	13.0	14.1	---
Base Number (BN)	mg KOH/g	6.9	7.8	6.0	---
Oxidation (PA)	%	115	94	139	---

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	0.1	0.3	---
Nitration (PA)	%	98	76	118	---
Sulfation (PA)	%	69	62	85	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	<1.0	---
Silicon	ppm	6	6	6	---
Sodium	ppm	2	3	4	---
Potassium	ppm	1	12	14	---



WEAR METALS

Iron	ppm	10	10	35	---
Copper	ppm	5	2	5	---
Lead	ppm	<1	<1	2	---
Tin	ppm	<1	<1	1	---
Aluminum	ppm	3	4	9	---
Chromium	ppm	<1	<1	1	---
Molybdenum	ppm	42	40	42	---
Nickel	ppm	<1	2	2	---
Titanium	ppm	0	<1	1	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	1827	1694	1701	---
Magnesium	ppm	532	504	514	---
Zinc	ppm	1225	1180	1057	---
Phosphorus	ppm	925	929	841	---
Barium	ppm	0	0	0	---
Boron	ppm	26	38	25	---

Depot: VOLVO4485
Unique No: 10736464
Signed: Sean Felton
Report Date: 10 Nov 2023



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GRAPHS

