



CONSTRUCTION EQUIPMENT

UNITED SCRAP & IRON SENNEBOGEN 835 835.0.2866 - DIESEL ENGINE



Sample No: VCP442184
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: UNITED SCRAP & IRON



SAMPLE INFORMATION

Sample Number	VCP442184	VCP424490	VCP401561	---
Sample Date	16 Nov 2023	03 Aug 2023	25 Apr 2023	---
Machine Hours	6354	5535	4751	---
Oil Hours	500	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	MARGINAL	SEVERE	---

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OIL CONDITION

Visc @ 100°C	cSt	■ 12.8	■ 12.7	▲ 10.7	---
Base Number (BN)	mg KOH/g	■ 8.6	■ 8.8	■ 8.5	---
Oxidation (PA)	%	101	100	96	---

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	■ 0.2	■ 0.2	■ 0.2	---
Nitration (PA)	%	84	87	85	---
Sulfation (PA)	%	67	67	65	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	▲ 2.2	■ 10.8	---
Silicon	ppm	■ 6	■ 5	■ 6	---
Sodium	ppm	■ 4	■ 6	■ 2	---
Potassium	ppm	■ 7	■ 9	■ 0	---



WEAR METALS

Iron	ppm	■ 8	■ 8	■ 12	---
Copper	ppm	■ 3	■ 3	■ 3	---
Lead	ppm	■ <1	■ 0	■ 0	---
Tin	ppm	■ <1	■ <1	■ 0	---
Aluminum	ppm	■ 3	■ 3	■ 2	---
Chromium	ppm	■ <1	■ <1	■ <1	---
Molybdenum	ppm	■ 37	■ 45	■ 40	---
Nickel	ppm	■ <1	■ 0	■ 0	---
Titanium	ppm	■ 0	■ 0	■ 0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ <1	■ <1	---
Vanadium	ppm	0	<1	<1	---



ADDITIVES

Calcium	ppm	■ 1642	■ 1948	■ 1646	---
Magnesium	ppm	■ 498	■ 584	■ 470	---
Zinc	ppm	■ 1137	■ 1303	■ 1057	---
Phosphorus	ppm	■ 990	■ 1014	■ 857	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 29	■ 40	■ 50	---

Depot: GRESOUNJ
Unique No: 10756293
Signed: Sean Felton
Report Date: 28 Nov 2023



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GRAPHS

