



CONSTRUCTION EQUIPMENT

UNITED SCRAP SENNEBOGEN 835 835.0.2725 - DIESEL ENGINE



Sample No: VCP442179
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: UNITED SCRAP



SAMPLE INFORMATION

Sample Number	VCP442179	VCP424491	VCP370035	VCP401641
Sample Date	24 Oct 2023	03 Aug 2023	25 Apr 2023	25 Apr 2023
Machine Hours	8520	7425	7216	7216
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	SEVERE	SEVERE	MARGINAL	SEVERE

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OIL CONDITION

Visc @ 100°C	cSt	▲ 10.1	▲ 10.5	■ 12.3	● 9.2
Base Number (BN)	mg KOH/g	■ 7.9	■ 7.3	■ 8.4	■ 8.0
Oxidation (PA)	%	■ 106	111	109	94

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	■ 88	94	93	84
Sulfation (PA)	%	■ 67	67	69	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	● 12.7	● 12.0	▲ 3.0	● 16.7
Silicon	ppm	■ 6	■ 5	■ 5	■ 5
Sodium	ppm	■ 3	■ 4	■ 3	■ 2
Potassium	ppm	■ 17	■ 3	■ 0	■ 0



WEAR METALS

Iron	ppm	■ 8	■ 11	■ 9	■ 11
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ <1	■ <1	■ 0	■ 0
Tin	ppm	■ <1	■ <1	■ 0	■ 0
Aluminum	ppm	■ 8	■ 2	■ 2	■ 2
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 32	■ 39	■ 39	■ 37
Nickel	ppm	■ <1	■ 0	■ 0	■ 0
Titanium	ppm	■ 0	■ 0	0	■ 0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	<1	■ <1
Vanadium	ppm	0	<1	<1	<1



ADDITIVES

Calcium	ppm	■ 1413	■ 1680	■ 1863	■ 1501
Magnesium	ppm	■ 427	■ 510	■ 488	■ 435
Zinc	ppm	■ 968	■ 1121	■ 1137	■ 957
Phosphorus	ppm	■ 846	■ 874	■ 933	■ 778
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 28	■ 41	■ 42	■ 44

Depot: GRESOUNJ
Unique No: 10756291
Signed: Sean Felton
Report Date: 28 Nov 2023



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GRAPHS

