



CONSTRUCTION EQUIPMENT

703843 IHF SENNEBOGEN 835 2496 - DIESEL ENGINE



Sample No: VCP453501
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 703843 IHF



SAMPLE INFORMATION

Sample Number	VCP453501	VCP442760	VCP382859	VCP363903
Sample Date	02 May 2024	21 Nov 2023	01 Feb 2023	15 Aug 2022
Machine Hours	11903	10716	8776	7646
Oil Hours	500	0	500	1000
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 17.16	■ 15.0	▲ 11.7	■ 13.1
Base Number (BN)	mg KOH/g	▲ 0.0	■ 6.9	■ 6.9	■ 8.8
Oxidation (PA)	%	180	114	71	82

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	▲ 6.1	▲ 3.6	■ 0.3	■ 0.3
Nitration (PA)	%	201	155	85	96
Sulfation (PA)	%	114	94	54	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 0.6	■ 1.4	▲ 5.1	<1.0
Silicon	ppm	■ 6	■ 8	■ 5	■ 4
Sodium	ppm	■ 2	■ 2	■ 0	■ 0
Potassium	ppm	■ <1	■ 4	■ 3	■ 3

WEAR METALS

Iron	ppm	■ 92	■ 79	■ 12	■ 10
Copper	ppm	■ 3	■ 3	■ 1	■ 2
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 5	■ 4	■ 2	■ 2
Chromium	ppm	■ 3	■ 3	■ <1	■ <1
Molybdenum	ppm	■ 63	■ 64	■ 62	■ 64
Nickel	ppm	■ <1	■ 1	■ 1	■ 0
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ 1	■ 1	■ <1	■ <1
Vanadium	ppm	0	0	<1	0

ADDITIVES

Calcium	ppm	■ 1242	■ 1135	1073	■ 1148
Magnesium	ppm	■ 903	■ 1003	950	■ 939
Zinc	ppm	■ 1292	■ 1345	■ 1261	■ 1346
Phosphorus	ppm	■ 1080	■ 1036	■ 1045	■ 1089
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 17	■ 3	■ 0	■ 3

Diagnosis

We advise that you check for faulty combustion, plugged air filters, or aftercoolers. Oil and filter change at the time of sampling has been noted. We recommend an early resample to monitor this condition. NOTE: High solids (carbon/soot) in the sample have limited the accuracy of Infra-Red data including Total Base Number (TBN) value. All component wear rates are normal. There is an abnormal amount of solids and carbon present in the oil. The oil viscosity is higher than normal. The BN level is low.

Depot: VOLVO2990
Unique No: 11034509
Signed: Jonathan Hester
Report Date: 29 May 2024



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GRAPHS

