



CONSTRUCTION EQUIPMENT

595813 DIPRO SENNEBOGAN 835 830.0.2853 - DIESEL ENGINE



Sample No: VCP412464
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 595813 DIPRO



SAMPLE INFORMATION

Sample Number	VCP412464	VCP424852	VCP380514	VCP388411
Sample Date	05 Aug 2023	29 Mar 2023	04 Jan 2023	11 Oct 2022
Machine Hours	4123	3387	2827	0
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	SEVERE	SEVERE	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 11.0	▲ 9.8	■ 13.6
Base Number (BN)	mg KOH/g	■ 6.3	■ 6.9	■ 7.7	■ 9.6
Oxidation (PA)	%	■ 96	■ 92	■ 73	■ 73

CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.1
Nitration (PA)	%	■ 93	■ 92	■ 83	■ 69
Sulfation (PA)	%	■ 65	■ 63	■ 55	■ 61
Glycol	%	■ NEG	■ NEG	■ NEG	■ NEG
Fuel	%	▲ 6.0	● 14.2	● 12.8	<1.0
Silicon	ppm	■ 3	■ 2	■ 2	■ 2
Sodium	ppm	■ 2	■ 1	■ 0	■ 0
Potassium	ppm	■ 4	■ 2	■ 3	■ 0

WEAR METALS

Iron	ppm	■ 15	■ 17	■ 10	■ 4
Copper	ppm	■ <1	■ 1	■ <1	■ <1
Lead	ppm	■ 0	■ 0	■ 0	■ <1
Tin	ppm	■ 0	■ 0	■ <1	■ <1
Aluminum	ppm	■ 8	■ 1	■ 1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 57	■ 52	■ 50	■ 59
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	■ 0	■ 0	■ 0	■ 0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	■ 0	■ 0	■ 0	■ 0

ADDITIVES

Calcium	ppm	■ 1041	■ 956	■ 880	■ 1054
Magnesium	ppm	■ 959	■ 892	■ 768	■ 875
Zinc	ppm	■ 1238	■ 1159	■ 1026	■ 1194
Phosphorus	ppm	■ 921	■ 915	■ 831	■ 983
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ <1	■ <1	■ 1	■ 28

Diagnosis

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 moderate amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining 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.

Depot: VOLVO2990
Unique No: 10644719
Signed: Wes Davis
Report Date: 14 Sep 2023



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VOLVO GRAPHS

