



CONSTRUCTION EQUIPMENT

646166 DIPRO SENNEBOGAN 835 830.0.2853 - DIESEL ENGINE



Sample No: VCP452293
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 646166 DIPRO



SAMPLE INFORMATION

Sample Number	VCP452293	VCP412464	VCP424852	VCP380514
Sample Date	20 Dec 2023	05 Aug 2023	29 Mar 2023	04 Jan 2023
Machine Hours	4628	4123	3387	2827
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ABNORMAL	SEVERE	SEVERE

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OIL CONDITION

Visc @ 100°C	cSt	█ 11.9	▲ 12.1	▲ 11.0	▲ 9.8
Base Number (BN)	mg KOH/g	█ 8.6	█ 6.3	█ 6.9	█ 7.7
Oxidation (PA)	%	72	96	92	73

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	█ 0.1	█ 0.2	█ 0.2	█ 0.2
Nitration (PA)	%	74	93	92	83
Sulfation (PA)	%	55	65	63	55
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 3.9	▲ 6.0	● 14.2	● 12.8
Silicon	ppm	█ 2	█ 3	█ 2	█ 2
Sodium	ppm	█ 1	█ 2	█ 1	█ 0
Potassium	ppm	█ 2	█ 4	█ 2	█ 3

WEAR METALS

Iron	ppm	█ 7	█ 15	█ 17	█ 10
Copper	ppm	█ <1	█ <1	█ 1	█ <1
Lead	ppm	█ 0	█ 0	█ 0	█ 0
Tin	ppm	█ <1	█ 0	█ 0	█ <1
Aluminum	ppm	█ <1	█ 8	█ 1	█ 1
Chromium	ppm	█ 0	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 57	█ 57	█ 52	█ 50
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	<1	0	0	0

ADDITIVES

Calcium	ppm	▲ 995	1041	█ 956	880
Magnesium	ppm	▲ 959	959	█ 892	768
Zinc	ppm	█ 1248	█ 1238	█ 1159	█ 1026
Phosphorus	ppm	█ 1016	█ 921	█ 915	█ 831
Barium	ppm	█ 0	█ 0	█ 0	█ 0
Boron	ppm	█ 0	█ <1	█ <1	█ 1

Diagnosis

The oil change at the time of sampling has been noted. Confirm the source of the lubricant being utilized for top-up/fill. Resample at the next service interval to monitor. No other corrective action is recommended at this time. All component wear rates are normal. Light fuel dilution occurring. No other contaminants were detected in the oil. Additive levels indicate the addition of a different brand, or type of oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO2990
Unique No: 10822404
Signed: Wes Davis
Report Date: 16 Jan 2024



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VOLVO GRAPHS

