



CONSTRUCTION EQUIPMENT

659059 TUCKER PAVING VOLVO A25G 742081 - DIESEL ENGINE



Sample No: VCP428670
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 659059 TUCKER PAVING



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SAMPLE INFORMATION

Sample Number	VCP428670	VCP425811	VCP393784	VCP386619
Sample Date	08 Jan 2024	14 Jul 2023	13 Mar 2023	24 Oct 2022
Machine Hours	8469	7964	7506	7007
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	▲ 11.7	▲ 11.3	▲ 12.1
Base Number (BN)	mg KOH/g	■ 9.1	■ 8.9	■ 8.8	■ 10.3
Oxidation (PA)	%	74	76	79	82



CONTAMINATION

Water	%	NEG	NEG	NEG	■ 0.114
Soot %	%	■ 0.3	■ 0.3	■ 0.3	■ 0.3
Nitration (PA)	%	63	67	67	78
Sulfation (PA)	%	58	59	61	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 2.7	▲ 4.3	<1.0
Silicon	ppm	■ 7	■ 5	■ 5	■ 4
Sodium	ppm	■ 2	■ 2	■ 2	■ <1
Potassium	ppm	■ 0	■ 0	■ 0	■ 2



WEAR METALS

Iron	ppm	■ 9	■ 7	■ 8	■ 6
Copper	ppm	■ <1	■ 2	■ <1	■ 8
Lead	ppm	■ <1	■ 0	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ 2	■ 2
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 46	■ 48	■ 44	■ 47
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	0	<1	<1
Silver	ppm	■ 0	■ 0	■ 0	■ 2
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	■ 1681	■ 1788	■ 1656	■ 1529
Magnesium	ppm	■ 513	■ 510	■ 542	■ 590
Zinc	ppm	■ 1132	■ 1200	■ 1146	■ 1125
Phosphorus	ppm	■ 967	■ 993	■ 935	■ 923
Barium	ppm	■ 0	■ <1	■ 0	■ 0
Boron	ppm	■ 29	■ 25	■ 31	■ 19

Diagnosis

Oil and filter change at the time of sampling has been noted. 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 oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.

Depot: VOLVO0093
Unique No: 10861619
Signed: Sean Felton
Report Date: 07 Feb 2024



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VOLVO GRAPHS

