



CONSTRUCTION EQUIPMENT

567435 APTIM VOLVO A35G 340070 - DIESEL ENGINE



Sample No: VCP422957
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 567435 APTIM



SAMPLE INFORMATION

Sample Number	VCP422957	VCP411078	VCP409332	VCP386113
Sample Date	26 Jun 2023	19 Apr 2023	08 Feb 2023	08 Nov 2022
Machine Hours	8469	7985	7414	6869
Oil Hours	500	500	500	0
Oil Changed	Changed	Changed	Changed	N/A
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.3	▲ 12.0	▲ 12.0	▲ 11.8
Base Number (BN)	mg KOH/g	■ 9.8	■ 9.8	■ 8.9	■ 8.9
Oxidation (PA)	%	78	79	78	61



CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.3
Nitration (PA)	%	63	63	61	66
Sulfation (PA)	%	59	59	60	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	■ 0.7
Silicon	ppm	■ 4	■ 5	■ 5	■ 6
Sodium	ppm	■ 2	■ 4	■ 1	■ 0
Potassium	ppm	■ 0	■ 1	■ 1	■ 2



WEAR METALS

Iron	ppm	■ 5	■ 6	■ 7	■ 10
Copper	ppm	■ <1	■ <1	■ <1	■ 4
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ 1	■ <1	■ <1
Aluminum	ppm	■ <1	■ 0	■ 1	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ 0
Molybdenum	ppm	■ 41	■ 49	■ 47	■ 62
Nickel	ppm	■ <1	■ <1	■ 0	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	■ 1629	■ 1580	■ 1619	■ 1793
Magnesium	ppm	■ 490	■ 516	■ 471	■ 345
Zinc	ppm	■ 1079	■ 1127	■ 1105	■ 1230
Phosphorus	ppm	■ 884	■ 934	■ 919	■ 1050
Barium	ppm	■ 0	■ 0	■ <1	■ 0
Boron	ppm	■ 28	■ 32	■ 40	■ 63

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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: 10573015
Signed: Sean Felton
Report Date: 27 Jul 2023



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GRAPHS

