



CONSTRUCTION EQUIPMENT

621044 APTIM VOLVO A35G 340070 - DIESEL ENGINE



Sample No: VCP436217
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621044 APTIM



SAMPLE INFORMATION

Sample Number	VCP436217	VCP422957	VCP411078	VCP409332
Sample Date	26 Oct 2023	26 Jun 2023	19 Apr 2023	08 Feb 2023
Machine Hours	8853	8469	7985	7414
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	▲ 12.3	▲ 12.0	▲ 12.0
Base Number (BN)	mg KOH/g	■ 9.7	■ 9.8	■ 9.8	■ 8.9
Oxidation (PA)	%	77	78	79	78

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	58	63	63	61
Sulfation (PA)	%	59	59	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 4	■ 5	■ 5
Sodium	ppm	■ 2	■ 2	■ 4	■ 1
Potassium	ppm	■ 0	■ 0	■ 1	■ 1



WEAR METALS

Iron	ppm	■ 5	■ 5	■ 6	■ 7
Copper	ppm	■ <1	■ <1	■ <1	■ <1
Lead	ppm	■ <1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ 1	■ <1
Aluminum	ppm	■ 2	■ <1	■ 0	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 43	■ 41	■ 49	■ 47
Nickel	ppm	■ <1	■ <1	■ <1	■ 0
Titanium	ppm	<1	<1	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	■ 1601	■ 1629	■ 1580	■ 1619
Magnesium	ppm	■ 491	■ 490	■ 516	■ 471
Zinc	ppm	■ 1105	■ 1079	■ 1127	■ 1105
Phosphorus	ppm	■ 910	■ 884	■ 934	■ 919
Barium	ppm	■ 0	■ 0	■ 0	■ <1
Boron	ppm	■ 33	■ 28	■ 32	■ 40

Depot: VOLVO0093
Unique No: 10752983
Signed: Don Baldrige
Report Date: 23 Nov 2023



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VOLVO GRAPHS

