



CONSTRUCTION EQUIPMENT

659961 APTIM VOLVO A35G 340070 - DIESEL ENGINE



Sample No: VCP454421
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 659961 APTIM



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SAMPLE INFORMATION

Sample Number	VCP454421	VCP436217	VCP422957	VCP411078
Sample Date	12 Jan 2024	26 Oct 2023	26 Jun 2023	19 Apr 2023
Machine Hours	9239	8853	8469	7985
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.0	▲ 12.0	▲ 12.3	▲ 12.0
Base Number (BN)	mg KOH/g	■ 9.3	■ 9.7	■ 9.8	■ 9.8
Oxidation (PA)	%	64	77	78	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.1	■ 0.2	■ 0.2	■ 0.2
Nitration (PA)	%	60	58	63	63
Sulfation (PA)	%	53	59	59	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 5	■ 4	■ 5
Sodium	ppm	■ <1	■ 2	■ 2	■ 4
Potassium	ppm	■ 0	■ 0	■ 0	■ 1



WEAR METALS

Iron	ppm	■ 5	■ 5	■ 5	■ 6
Copper	ppm	■ 0	■ <1	■ <1	■ <1
Lead	ppm	■ 0	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ 1
Aluminum	ppm	■ 2	■ 2	■ <1	■ 0
Chromium	ppm	■ 0	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 51	■ 43	■ 41	■ 49
Nickel	ppm	■ 0	■ <1	■ <1	■ <1
Titanium	ppm	0	<1	<1	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ 0	■ <1	■ <1	■ <1
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	■ 1343	■ 1601	■ 1629	■ 1580
Magnesium	ppm	843	■ 491	■ 490	■ 516
Zinc	ppm	■ 1249	■ 1105	■ 1079	■ 1127
Phosphorus	ppm	■ 1022	■ 910	■ 884	■ 934
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 13	■ 33	■ 28	■ 32

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: 10886304
Signed: Sean Felton
Report Date: 21 Feb 2024



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GRAPHS

