



CONSTRUCTION EQUIPMENT

621037 APTIM VOLVO A35G 340238 - DIESEL ENGINE



Sample No: VCP440806
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621037 APTIM



SAMPLE INFORMATION

Sample Number	VCP440806	VCP417584	VCP395044	VCP386641
Sample Date	26 Oct 2023	31 May 2023	08 Mar 2023	08 Nov 2022
Machine Hours	9506	8953	8343	7680
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.1	▲ 12.2	▲ 12.0	■ 12.7
Base Number (BN)	mg KOH/g	■ 9.5	■ 9.1	■ 9.1	■ 11.1
Oxidation (PA)	%	81	84	82	90

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	■ 0.3
Nitration (PA)	%	68	66	72	78
Sulfation (PA)	%	60	61	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	■ 0.9	<1.0
Silicon	ppm	■ 6	■ 4	■ 7	■ 7
Sodium	ppm	■ 3	■ 3	■ 3	■ 1
Potassium	ppm	■ 0	■ 0	■ 0	■ 1



WEAR METALS

Iron	ppm	■ 7	■ 6	■ 8	■ 9
Copper	ppm	■ <1	■ <1	■ 1	■ 1
Lead	ppm	■ 1	■ 0	■ 0	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 3	■ 0	■ 3	■ 2
Chromium	ppm	■ <1	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 41	■ 43	■ 43	■ 41
Nickel	ppm	■ <1	■ 0	■ <1	■ 0
Titanium	ppm	<1	0	<1	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ 1	■ <1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	■ 1609	■ 1655	■ 1583	■ 1709
Magnesium	ppm	■ 495	■ 508	■ 482	■ 477
Zinc	ppm	■ 1114	■ 1080	■ 1025	■ 1075
Phosphorus	ppm	■ 926	■ 902	■ 838	■ 914
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 25	■ 26	■ 26	■ 21

Depot: VOLVO0093
Unique No: 10752974
Signed: Don Baldrige
Report Date: 23 Nov 2023



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VOLVO GRAPHS

