



CONSTRUCTION EQUIPMENT

580674 APTIM VOLVO A35G 340227 - DIESEL ENGINE



Sample No: VCP425810
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 580674 APTIM



SAMPLE INFORMATION

Sample Number	VCP425810	VCP425789	VCP421138	VCP395747
Sample Date	27 Jul 2023	31 May 2023	03 Apr 2023	01 Feb 2023
Machine Hours	7611	7328	7139	6647
Oil Hours	500	2000	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	SEVERE	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 5.2	▲ 12.0	▲ 11.9
Base Number (BN)	mg KOH/g	■ 9.4	■ 24.1	■ 8.6	■ 8.7
Oxidation (PA)	%	76	112	73	61



CONTAMINATION

Water	%	---	● 5.68	---	---
Soot %	%	■ 0.2	■ 0.3	■ 0.1	■ 0.2
Nitration (PA)	%	56	180	56	73
Sulfation (PA)	%	59	14	53	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 0.6	<1.0	■ 0.8
Silicon	ppm	■ 5	■ 11	■ 5	■ 6
Sodium	ppm	■ 0	■ 3	■ 0	■ <1
Potassium	ppm	■ 2	■ <1	■ 1	■ 2



WEAR METALS

Iron	ppm	■ 20	■ 39	■ 6	■ 11
Copper	ppm	■ 21	■ 8	■ <1	■ 3
Lead	ppm	■ <1	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ 2	■ <1	■ <1
Aluminum	ppm	■ 2	■ <1	■ 0	■ 4
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 44	■ 39	■ 47	■ 50
Nickel	ppm	■ 1	■ <1	■ 0	■ 2
Titanium	ppm	0	0	0	<1
Silver	ppm	■ <1	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	■ 1636	■ 1527	■ 1566	■ 1442
Magnesium	ppm	■ 469	■ 453	■ 494	■ 599
Zinc	ppm	■ 1099	■ 1037	■ 1069	■ 940
Phosphorus	ppm	■ 933	■ 877	■ 882	■ 793
Barium	ppm	■ 0	■ 0	■ 2	■ 0
Boron	ppm	■ 52	■ 67	■ 38	■ 43

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: 10589100
Signed: Jonathan Hester
Report Date: 08 Aug 2023



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GRAPHS

