



CONSTRUCTION EQUIPMENT

729230 APTIM VOLVO A35G 340232 - DIESEL ENGINE



Sample No: VCP449854
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 729230 APTIM



SAMPLE INFORMATION

Sample Number	VCP449854	VCP435652	VCP416012	VCP393981
Sample Date	18 Jun 2024	25 Oct 2023	23 Jun 2023	16 Mar 2023
Machine Hours	9472	8414	7810	7309
Oil Hours	500	500	4000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	11.4	11.5	11.8	11.7
Base Number (BN)	mg KOH/g	9.2	9.3	9.6	9.5
Oxidation (PA)	%	73	79	78	79

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)	%	68	64	65	63
Sulfation (PA)	%	58	60	59	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	2.5
Silicon	ppm	4	5	6	7
Sodium	ppm	4	3	5	11
Potassium	ppm	<1	0	<1	1



WEAR METALS

Iron	ppm	6	6	6	7
Copper	ppm	<1	1	2	1
Lead	ppm	0	<1	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	2	<1	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	38	42	43	44
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	0	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1503	1560	1640	1635
Magnesium	ppm	523	485	503	504
Zinc	ppm	997	1083	1080	1081
Phosphorus	ppm	879	906	892	913
Barium	ppm	0	0	0	0
Boron	ppm	23	25	29	39

Depot: VOLVO0093
Unique No: 11126338
Signed: Sean Felton
Report Date: 18 Jul 2024



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GRAPHS

