



CONSTRUCTION EQUIPMENT

621047 APTIM VOLVO A35G 340236 - DIESEL ENGINE



Sample No: VCP435656
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621047 APTIM



SAMPLE INFORMATION

Sample Number	VCP435656	VCP420237	VCP392553	VCP395032
Sample Date	25 Oct 2023	25 May 2023	08 Mar 2023	08 Mar 2023
Machine Hours	7463	6888	6404	6404
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.1	13.0	12.1
Base Number (BN)	mg KOH/g	8.7	9.5	9.4	9.3
Oxidation (PA)	%	76	83	89	79

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.4	0.2
Nitration (PA)	%	67	61	75	70
Sulfation (PA)	%	59	60	64	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.3	<1.0	1.7
Silicon	ppm	6	4	6	7
Sodium	ppm	3	2	2	2
Potassium	ppm	0	0	<1	0



WEAR METALS

Iron	ppm	7	6	22	10
Copper	ppm	1	<1	2	1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	3	0	11	3
Chromium	ppm	<1	0	2	<1
Molybdenum	ppm	42	42	50	40
Nickel	ppm	1	<1	<1	2
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1579	1648	1818	1572
Magnesium	ppm	526	504	660	495
Zinc	ppm	1123	1072	1308	1033
Phosphorus	ppm	931	894	1047	827
Barium	ppm	0	0	0	0
Boron	ppm	22	31	24	25

Depot: VOLVO0093
Unique No: 10752980
Signed: Wes Davis
Report Date: 22 Nov 2023



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VOLVO GRAPHS

