



CONSTRUCTION EQUIPMENT

702905 APTIM VOLVO A35G 340070 - DIESEL ENGINE



Sample No: VCP437500
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 702905 APTIM



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SAMPLE INFORMATION

Sample Number	VCP437500	VCP454421	VCP436217	VCP422957
Sample Date	29 Apr 2024	12 Jan 2024	26 Oct 2023	26 Jun 2023
Machine Hours	9862	9239	8853	8469
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	12.0	12.3
Base Number (BN)	mg KOH/g	6.5	9.3	9.7	9.8
Oxidation (PA)	%	69	64	77	78

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.1	0.2	0.2
Nitration (PA)	%	75	60	58	63
Sulfation (PA)	%	59	53	59	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	5	5	4
Sodium	ppm	13	<1	2	2
Potassium	ppm	6	0	0	0

WEAR METALS

Iron	ppm	11	5	5	5
Copper	ppm	2	0	<1	<1
Lead	ppm	1	0	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	7	2	2	<1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	77	51	43	41
Nickel	ppm	<1	0	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	<1	<1	<1	<1

ADDITIVES

Calcium	ppm	1605	1343	1601	1629
Magnesium	ppm	1202	843	491	490
Zinc	ppm	1662	1249	1105	1079
Phosphorus	ppm	1497	1022	910	884
Barium	ppm	0	0	0	0
Boron	ppm	9	13	33	28

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: 11036742
Signed: Jonathan Hester
Report Date: 23 May 2024



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VOLVO GRAPHS

