



CONSTRUCTION EQUIPMENT

687521 APTIM VOLVO A35G 340236 - DIESEL ENGINE



Sample No: VCP437936
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 687521 APTIM



ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



SAMPLE INFORMATION

Sample Number	VCP437936	VCP440002	VCP435656	VCP420237
Sample Date	12 Mar 2024	26 Feb 2024	25 Oct 2023	25 May 2023
Machine Hours	8945	7992	7463	6888
Oil Hours	500	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	NORMAL	NORMAL



OIL CONDITION

Visc @ 100°C	cSt	11.7	12.0	12.1	12.1
Base Number (BN)	mg KOH/g	9.6	9.1	8.7	9.5
Oxidation (PA)	%	81	80	76	83



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	69	70	67	61
Sulfation (PA)	%	60	59	59	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.3
Silicon	ppm	5	6	6	4
Sodium	ppm	2	3	3	2
Potassium	ppm	<1	2	0	0



WEAR METALS

Iron	ppm	8	8	7	6
Copper	ppm	1	2	1	<1
Lead	ppm	2	1	<1	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	5	3	0
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	41	42	42	42
Nickel	ppm	2	3	1	<1
Titanium	ppm	<1	<1	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1846	1626	1579	1648
Magnesium	ppm	540	527	526	504
Zinc	ppm	1222	1110	1123	1072
Phosphorus	ppm	972	912	931	894
Barium	ppm	0	0	0	0
Boron	ppm	24	24	22	31

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: 10970506
Signed: Jonathan Hester
Report Date: 16 Apr 2024



CONSTRUCTION EQUIPMENT



GRAPHS

