



CONSTRUCTION EQUIPMENT

SEC VOLVO A45G 353622 - DIESEL ENGINE



Sample No: VCP417079
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SEC



SAMPLE INFORMATION

Sample Number	VCP417079	---	---	---
Sample Date	20 Jun 2023	---	---	---
Machine Hours	236	---	---	---
Oil Hours	250	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ATTENTION	---	---	---

216 - ASCENDUM MACHINERY INC - PIEDMONT
 407 OAK ROAD
 PIEDMONT, SC
 US 29673
 Contact: KEMP COBLE
 kemp.coble@ascendummachinery.com
 T: (864)704-1060
 F: (864)704-1069



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.1	---	---	---
Base Number (BN)	mg KOH/g	■ 7.1	---	---	---
Oxidation (PA)	%	51	---	---	---

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. Fuel content negligible. 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

Soot %	%	■ 0.1	---	---	---
Nitration (PA)	%	67	---	---	---
Sulfation (PA)	%	48	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	■ 0.5	---	---	---
Silicon	ppm	■ 22	---	---	---
Sodium	ppm	■ 4	---	---	---
Potassium	ppm	■ 2	---	---	---



WEAR METALS

Iron	ppm	■ 12	---	---	---
Copper	ppm	■ 39	---	---	---
Lead	ppm	■ <1	---	---	---
Tin	ppm	■ 3	---	---	---
Aluminum	ppm	■ 2	---	---	---
Chromium	ppm	■ 1	---	---	---
Molybdenum	ppm	■ 89	---	---	---
Nickel	ppm	■ <1	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	■ 0	---	---	---
Manganese	ppm	■ 2	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	■ 2310	---	---	---
Magnesium	ppm	20	---	---	---
Zinc	ppm	■ 1292	---	---	---
Phosphorus	ppm	■ 1074	---	---	---
Barium	ppm	■ 0	---	---	---
Boron	ppm	■ 76	---	---	---

Depot: VOLVO4596
Unique No: 10575261
Signed: Don Baldrige
Report Date: 28 Jul 2023



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GRAPHS

