



CONSTRUCTION EQUIPMENT

716869 N AM MINING - DIESEL ENGINE



Sample No: VCP449861
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 716869 N AM MINING



SAMPLE INFORMATION

Sample Number	VCP449861	VCP54870	---	---
Sample Date	17 Jun 2024	17 Jan 2007	---	---
Machine Hours	4855	7313	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Not Changd	---	---
Sample Status	ATTENTION	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 12.0	■ 14.13	---	---
Base Number (BN)	mg KOH/g	■ 9.5	---	---	---
Oxidation (PA)	%	71	■ 42	---	---

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

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.2	---	---
Nitration (PA)	%	56	■ 45	---	---
Sulfation (PA)	%	57	■ 44	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	■ 0.3	<1.0	---	---
Silicon	ppm	■ 4	■ 4	---	---
Sodium	ppm	■ 3	■ 1	---	---
Potassium	ppm	■ <1	■ 0	---	---



WEAR METALS

Iron	ppm	■ 4	■ 6	---	---
Copper	ppm	■ 2	■ 1	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 0	■ 0	---	---
Aluminum	ppm	■ <1	■ 2	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 40	■ 1	---	---
Nickel	ppm	■ 0	■ <1	---	---
Titanium	ppm	0	■ <1	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1562	■ 2704	---	---
Magnesium	ppm	■ 549	■ 11	---	---
Zinc	ppm	■ 1043	■ 1149	---	---
Phosphorus	ppm	■ 926	■ 1103	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 41	■ 4	---	---

Depot: VOLVO0093
Unique No: 11126329
Signed: Sean Felton
Report Date: 18 Jul 2024



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GRAPHS

