



CONSTRUCTION EQUIPMENT

MO6000019-1 PETERBILT 337 MBO1567 - DIESEL ENGINE



Sample No: VCP417197
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: MO6000019-1



SAMPLE INFORMATION

Sample Number	VCP417197	VCP411501	VCP402746	---
Sample Date	23 Oct 2023	25 Aug 2023	19 Jun 2023	---
Machine Hours	28900	22750	0	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	N/A	---
Sample Status	ATTENTION	ATTENTION	NORMAL	---

MCCLUNG-LOGAN EQUIPMENT CO - SALEM
 2025 COOK DRIVE
 SALEM, VA
 US 24153
 Contact: HUNTER TRIVELLIN
 ttrivellin@mcclung-logan.com
 T: (540)789-3750
 F:



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.2	▲ 12.2	■ 11.9	---
Base Number (BN)	mg KOH/g	■ 8.8	■ 7.8	■ 7.2	---
Oxidation (PA)	%	55	50	56	---



CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.2	---
Nitration (PA)	%	55	58	58	---
Sulfation (PA)	%	51	48	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	■ 1.3	---
Silicon	ppm	■ 8	■ 9	■ 10	---
Sodium	ppm	■ 2	■ 3	■ 2	---
Potassium	ppm	100	148	■ 77	---



WEAR METALS

Iron	ppm	■ 18	■ 22	■ 27	---
Copper	ppm	■ 1	■ 4	■ 9	---
Lead	ppm	■ 0	■ 1	■ 0	---
Tin	ppm	■ <1	■ <1	■ 0	---
Aluminum	ppm	36	63	34	---
Chromium	ppm	■ 1	■ 2	■ <1	---
Molybdenum	ppm	■ 73	■ 67	■ 78	---
Nickel	ppm	■ 0	■ <1	■ 0	---
Titanium	ppm	0	■ <1	■ 0	---
Silver	ppm	■ 0	■ 0	■ 0	---
Manganese	ppm	■ <1	■ 1	■ <1	---
Vanadium	ppm	0	<1	0	---



ADDITIVES

Calcium	ppm	■ 1140	■ 1192	■ 1482	---
Magnesium	ppm	■ 808	■ 735	■ 509	---
Zinc	ppm	■ 1258	■ 1173	■ 1228	---
Phosphorus	ppm	■ 995	■ 934	■ 978	---
Barium	ppm	■ 0	■ 0	■ 0	---
Boron	ppm	■ 53	■ 99	■ 272	---

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. Elevated aluminum (Al) and/or lead (Pb) and potassium (K) levels in your metals analysis are likely a result of solder flux release into the lubricant and is common on new equipment/components. 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: VOLVO9010
Unique No: 10712735
Signed: Don Baldrige
Report Date: 27 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

