



CONSTRUCTION EQUIPMENT

607874 ASH GROVE VOLVO L180H 5419 - DIESEL ENGINE



Sample No: VCP443275
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 607874 ASH GROVE



SAMPLE INFORMATION

Sample Number	VCP443275	VCP305980	---	---
Sample Date	25 Sep 2023	26 Feb 2021	---	---
Machine Hours	10654	633	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	ABNORMAL	---	---

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	▲ 11.0	---	---
Base Number (BN)	mg KOH/g	█ 9.8	---	---	---
Oxidation (PA)	%	82	87	---	---

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is acceptable for the time in service.



CONTAMINATION

Soot %	%	█ 0.1	█ 0.1	---	---
Nitration (PA)	%	60	61	---	---
Sulfation (PA)	%	61	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	█ 0.6	---	---
Silicon	ppm	█ 8	█ 18	---	---
Sodium	ppm	█ 4	█ 3	---	---
Potassium	ppm	█ 3	█ 2	---	---



WEAR METALS

Iron	ppm	█ 11	█ 18	---	---
Copper	ppm	█ 3	▲ 214	---	---
Lead	ppm	█ <1	█ 1	---	---
Tin	ppm	█ <1	█ 4	---	---
Aluminum	ppm	█ 3	█ 2	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 113	█ 41	---	---
Nickel	ppm	█ 0	█ 0	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	<1	---	---
Manganese	ppm	█ 2	█ 3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	█ 1797	█ 1726	---	---
Magnesium	ppm	█ 636	█ 478	---	---
Zinc	ppm	█ 996	█ 1055	---	---
Phosphorus	ppm	█ 804	█ 947	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 300	█ 54	---	---

Depot: VOLVO0096
Unique No: 10670487
Signed: Don Baldrige
Report Date: 01 Oct 2023



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GRAPHS

