



CONSTRUCTION EQUIPMENT

SWA400347 THREE LAKE VOLVO ECR145 316421 - DIESEL ENGINE



Sample No: VCP431654
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA400347 THREE LAKE



SAMPLE INFORMATION

Sample Number	VCP431654	---	---	---
Sample Date	27 Oct 2023	---	---	---
Machine Hours	1035	---	---	---
Oil Hours	0	---	---	---
Oil Changed	Changed	---	---	---
Sample Status	ABNORMAL	---	---	---

ALTA EQUIPMENT COMPANY

5210 REESE ROAD
 DAVIE, FL
 US 33314

Contact: N. FACEY
 nfacey@altaequipfl.com
 T: (954)581-4744
 F: (954)583-0318



OIL CONDITION

Visc @ 100°C	cSt	█ 13.4	---	---	---
Base Number (BN)	mg KOH/g	█ 6.1	---	---	---
Oxidation (PA)	%	58	---	---	---

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. The aluminum level is abnormal. All other 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 %	%	█ 0.5	---	---	---
Nitration (PA)	%	71	---	---	---
Sulfation (PA)	%	59	---	---	---
Glycol	%	NEG	---	---	---
Fuel	%	<1.0	---	---	---
Silicon	ppm	█ 18	---	---	---
Sodium	ppm	█ 0	---	---	---
Potassium	ppm	█ 5	---	---	---



WEAR METALS

Iron	ppm	█ 49	---	---	---
Copper	ppm	█ 14	---	---	---
Lead	ppm	█ <1	---	---	---
Tin	ppm	█ 4	---	---	---
Aluminum	ppm	▲ 13	---	---	---
Chromium	ppm	█ 5	---	---	---
Molybdenum	ppm	█ 4	---	---	---
Nickel	ppm	█ 9	---	---	---
Titanium	ppm	0	---	---	---
Silver	ppm	█ 0	---	---	---
Manganese	ppm	█ 3	---	---	---
Vanadium	ppm	0	---	---	---



ADDITIVES

Calcium	ppm	█ 2262	---	---	---
Magnesium	ppm	75	---	---	---
Zinc	ppm	█ 1098	---	---	---
Phosphorus	ppm	█ 893	---	---	---
Barium	ppm	█ <1	---	---	---
Boron	ppm	█ 14	---	---	---

Depot: VOLVO0095
Unique No: 10724896
Signed: Sean Felton
Report Date: 03 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

