



CONSTRUCTION EQUIPMENT

SWA406634 SA RECYC VOLVO EC220EL 314377 - DIESEL ENGINE



Sample No: VCP431657
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SWA406634 SA RECYC



SAMPLE INFORMATION

Sample Number	VCP431657	VCP318137	---	---
Sample Date	03 Nov 2023	04 Aug 2021	---	---
Machine Hours	3640	966	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

ALTA EQUIPMENT COMPANY

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OIL CONDITION

Visc @ 100°C	cSt	14.8	▲ 10.7	---	---
Base Number (BN)	mg KOH/g	6.8	---	---	---
Oxidation (PA)	%	88	75	---	---



CONTAMINATION

Soot %	%	0.4	0.5	---	---
Nitration (PA)	%	100	65	---	---
Sulfation (PA)	%	66	60	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	1.0	---	---
Silicon	ppm	10	45	---	---
Sodium	ppm	2	5	---	---
Potassium	ppm	<1	2	---	---



WEAR METALS

Iron	ppm	33	82	---	---
Copper	ppm	2	11	---	---
Lead	ppm	1	2	---	---
Tin	ppm	<1	4	---	---
Aluminum	ppm	▲ 14	▲ 43	---	---
Chromium	ppm	<1	10	---	---
Molybdenum	ppm	69	37	---	---
Nickel	ppm	0	3	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	7	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1492	1474	---	---
Magnesium	ppm	887	623	---	---
Zinc	ppm	1419	1111	---	---
Phosphorus	ppm	1088	968	---	---
Barium	ppm	0	0	---	---
Boron	ppm	6	45	---	---

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 has decreased, but is still 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.

Depot: VOLVO0095
Unique No: 10736442
Signed: Sean Felton
Report Date: 10 Nov 2023



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GRAPHS

