



CONSTRUCTION EQUIPMENT

661880 MOSAIC VOLVO EC480EL 315030 - DIESEL ENGINE



Sample No: VCP441973
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 661880 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP441973	VCP427328	---	---
Sample Date	31 Jan 2024	29 Sep 2023	---	---
Machine Hours	1027	584	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 john.fardella@altg.com
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	● 11.9	● 10.6	---	---
Base Number (BN)	mg KOH/g	■ 7.9	■ 5.1	---	---
Oxidation (PA)	%	81	65	---	---

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 copper 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 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	■ 0.1	---	---
Nitration (PA)	%	74	86	---	---
Sulfation (PA)	%	62	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 1.2	---	---
Silicon	ppm	■ 15	■ 32	---	---
Sodium	ppm	■ 2	■ 3	---	---
Potassium	ppm	■ 2	■ 4	---	---



WEAR METALS

Iron	ppm	■ 9	■ 10	---	---
Copper	ppm	▲ 71	▲ 190	---	---
Lead	ppm	■ 1	■ 2	---	---
Tin	ppm	■ 2	■ 3	---	---
Aluminum	ppm	■ 2	■ 3	---	---
Chromium	ppm	■ <1	■ <1	---	---
Molybdenum	ppm	■ 45	■ 77	---	---
Nickel	ppm	■ 2	■ 1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ 2	■ 3	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	■ 1619	■ 2186	---	---
Magnesium	ppm	■ 351	43	---	---
Zinc	ppm	■ 998	■ 1234	---	---
Phosphorus	ppm	■ 839	■ 968	---	---
Barium	ppm	■ 1	■ 0	---	---
Boron	ppm	■ 19	■ 17	---	---

Depot: VOLVO0093
Unique No: 10900905
Signed: Don Baldrige
Report Date: 29 Feb 2024



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GRAPHS

