



CONSTRUCTION EQUIPMENT

717679 MOSAIC VOLVO EC480EL 315186 - DIESEL ENGINE



Sample No: VCP443586
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 717679 MOSAIC



SAMPLE INFORMATION

Sample Number	VCP443586	VCP437900	---	---
Sample Date	13 Jun 2024	13 Mar 2024	---	---
Machine Hours	1197	770	---	---
Oil Hours	1197	0	---	---
Oil Changed	N/A	N/A	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	● 12.4	■ 11.0	---	---
Base Number (BN)	mg KOH/g	■ 7.6	■ 3.9	---	---
Oxidation (PA)	%	75	81	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	■ 0.1	■ 0.1	---	---
Nitration (PA)	%	74	94	---	---
Sulfation (PA)	%	60	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	■ 0.7	---	---
Silicon	ppm	■ 8	■ 24	---	---
Sodium	ppm	■ 3	■ 3	---	---
Potassium	ppm	■ <1	■ 2	---	---



WEAR METALS

Iron	ppm	■ 6	■ 18	---	---
Copper	ppm	▲ 99	▲ 240	---	---
Lead	ppm	■ 0	■ 0	---	---
Tin	ppm	■ 0	■ 2	---	---
Aluminum	ppm	■ <1	■ 3	---	---
Chromium	ppm	■ 0	■ <1	---	---
Molybdenum	ppm	■ 37	■ 81	---	---
Nickel	ppm	■ 0	■ 2	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	■ 0	■ 0	---	---
Manganese	ppm	■ <1	3	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	■ 1806	■ 2069	---	---
Magnesium	ppm	■ 367	■ 170	---	---
Zinc	ppm	■ 1015	■ 1144	---	---
Phosphorus	ppm	■ 907	■ 943	---	---
Barium	ppm	■ 0	■ 0	---	---
Boron	ppm	■ 22	■ 9	---	---

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. In the absence of other significant wear metals, suspect copper due to sources other than wear (i.e. cooling core). 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.

Depot: VOLVO0093
Unique No: 11126340
Signed: Sean Felton
Report Date: 18 Jul 2024



CONSTRUCTION EQUIPMENT



GRAPHS

