



CONSTRUCTION EQUIPMENT

716661 MOSAIC VOLVO EC480EL 315447 - DIESEL ENGINE



Sample No: VCP451349
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 716661 MOSAIC



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SAMPLE INFORMATION

Sample Number	VCP451349	VCP449222	---	---
Sample Date	22 May 2024	29 Feb 2024	---	---
Machine Hours	1348	636	---	---
Oil Hours	500	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---



OIL CONDITION

Visc @ 100°C	cSt	10.8	10.6	---	---
Base Number (BN)	mg KOH/g	3.8	4.8	---	---
Oxidation (PA)	%	80	66	---	---



CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	91	85	---	---
Sulfation (PA)	%	65	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.9	---	---
Silicon	ppm	22	25	---	---
Sodium	ppm	3	3	---	---
Potassium	ppm	2	2	---	---



WEAR METALS

Iron	ppm	16	16	---	---
Copper	ppm	97	145	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	<1	<1	---	---
Aluminum	ppm	1	2	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	61	84	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	2	2	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	2115	2273	---	---
Magnesium	ppm	107	104	---	---
Zinc	ppm	1021	1243	---	---
Phosphorus	ppm	873	1011	---	---
Barium	ppm	0	0	---	---
Boron	ppm	1	6	---	---

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.

Depot: VOLVO0093
Unique No: 11087186
Signed: Don Baldrige
Report Date: 21 Jun 2024



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GRAPHS

