



CONSTRUCTION EQUIPMENT

RENTALS VOLVO EC480 315121 - DIESEL ENGINE



Sample No: VCP440173
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RENTALS



SAMPLE INFORMATION

Sample Number	VCP440173	VCP422915	---	---
Sample Date	17 Jun 2024	30 Jun 2023	---	---
Machine Hours	1782	593	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	ABNORMAL	ABNORMAL	---	---

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: KENNY HANEY
 khaney@flaglerce.com
 T: (813)630-0077
 F: (813)630-2233

OIL CONDITION

Visc @ 100°C	cSt	12.4	11.0	---	---
Base Number (BN)	mg KOH/g	5.9	6.4	---	---
Oxidation (PA)	%	80	68	---	---

CONTAMINATION

Water	%	NEG	NEG	---	---
Soot %	%	0.1	0.1	---	---
Nitration (PA)	%	83	84	---	---
Sulfation (PA)	%	63	58	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	9	29	---	---
Sodium	ppm	1	3	---	---
Potassium	ppm	0	4	---	---

Diagnosis

Oil and filter change at the time of sampling has been noted. 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.

WEAR METALS

Iron	ppm	7	5	---	---
Copper	ppm	28	498	---	---
Lead	ppm	0	5	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	1	6	---	---
Chromium	ppm	0	0	---	---
Molybdenum	ppm	55	96	---	---
Nickel	ppm	0	0	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	2	---	---
Vanadium	ppm	<1	0	---	---

ADDITIVES

Calcium	ppm	1780	2384	---	---
Magnesium	ppm	523	272	---	---
Zinc	ppm	1191	1429	---	---
Phosphorus	ppm	939	1229	---	---
Barium	ppm	0	13	---	---
Boron	ppm	10	41	---	---

Depot: VOLVO0093
Unique No: 11090620
Signed: Don Baldrige
Report Date: 25 Jun 2024



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GRAPHS

