



CONSTRUCTION EQUIPMENT

VOLVO EC480EL 315150 - DIESEL ENGINE



Sample No: VCP436677
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



ALTA EQUIPMENT COMPANY
 5151 DR MARTIN LUTHER KING BLVD
 FORT MYERS, FL
 US 33905
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SAMPLE INFORMATION

Sample Number	VCP436677	VCP405371	VCP418619	---
Sample Date	09 Apr 2024	07 Dec 2023	11 Aug 2023	---
Machine Hours	1876	1188	640	---
Oil Hours	0	0	0	---
Oil Changed	Changed	N/A	Changed	---
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	11.7	11.9	11.9	---
Base Number (BN)	mg KOH/g	6.8	7.3	5.2	---
Oxidation (PA)	%	73	83	56	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	73	70	67	---
Sulfation (PA)	%	58	62	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.5	---
Silicon	ppm	10	11	27	---
Sodium	ppm	<1	<1	2	---
Potassium	ppm	2	0	2	---



WEAR METALS

Iron	ppm	6	6	18	---
Copper	ppm	19	74	265	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	1	0	2	---
Aluminum	ppm	2	0	2	---
Chromium	ppm	<1	0	<1	---
Molybdenum	ppm	59	48	23	---
Nickel	ppm	<1	0	<1	---
Titanium	ppm	<1	0	0	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	3	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1422	1691	2136	---
Magnesium	ppm	800	451	151	---
Zinc	ppm	1224	1046	1108	---
Phosphorus	ppm	1013	844	903	---
Barium	ppm	0	0	0	---
Boron	ppm	5	14	2	---

Diagnosis

No corrective action is recommended at this time. 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. 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: VOLVO0090
Unique No: 10978442
Signed: Sean Felton
Report Date: 17 Apr 2024



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GRAPHS

