



CONSTRUCTION EQUIPMENT

RENTAL VOLVO ECR145EL 315482 - DIESEL ENGINE



Sample No: VCP422945
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: RENTAL



SAMPLE INFORMATION

Sample Number	VCP422945	VCP385815	---	---
Sample Date	03 Jul 2023	03 Oct 2022	---	---
Machine Hours	2063	1443	---	---
Oil Hours	500	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.9	█ 13.2	---	---
Base Number (BN)	mg KOH/g	█ 10.5	█ 12.3	---	---
Oxidation (PA)	%	83	86	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. There is no indication of any contamination in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	█ 0.3	█ 0.2	---	---
Nitration (PA)	%	66	61	---	---
Sulfation (PA)	%	63	65	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 6	█ 5	---	---
Sodium	ppm	█ 2	█ 2	---	---
Potassium	ppm	█ 0	█ 0	---	---



WEAR METALS

Iron	ppm	█ 15	█ 6	---	---
Copper	ppm	█ 2	█ 2	---	---
Lead	ppm	█ 0	█ <1	---	---
Tin	ppm	█ <1	█ <1	---	---
Aluminum	ppm	█ 6	█ 3	---	---
Chromium	ppm	█ <1	█ <1	---	---
Molybdenum	ppm	█ 45	█ 40	---	---
Nickel	ppm	█ <1	█ <1	---	---
Titanium	ppm	0	0	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ <1	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1539	█ 1645	---	---
Magnesium	ppm	█ 465	█ 494	---	---
Zinc	ppm	█ 1040	█ 1108	---	---
Phosphorus	ppm	█ 849	█ 881	---	---
Barium	ppm	█ 0	█ 0	---	---
Boron	ppm	█ 80	█ 48	---	---

Depot: VOLVO0093
Unique No: 10551671
Signed: Wes Davis
Report Date: 12 Jul 2023



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GRAPHS

