



CONSTRUCTION EQUIPMENT

4001 SYNERGY VOLVO ECR235 314207 - DIESEL ENGINE



Sample No: VCP455361
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 4001 SYNERGY



SAMPLE INFORMATION

Sample Number	VCP455361	VCP307039	---	---
Sample Date	09 Feb 2024	09 Mar 2021	---	---
Machine Hours	4205	1241	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	█ 12.8	█ 12.9	---	---
Base Number (BN)	mg KOH/g	█ 9.9	---	---	---
Oxidation (PA)	%	80	60	---	---

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

Water	%	NEG	NEG	---	---
Soot %	%	█ 0.2	█ 0.2	---	---
Nitration (PA)	%	67	73	---	---
Sulfation (PA)	%	59	66	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	█ 11	█ 12	---	---
Sodium	ppm	█ 2	█ 3	---	---
Potassium	ppm	█ 2	█ 1	---	---



WEAR METALS

Iron	ppm	█ 71	█ 44	---	---
Copper	ppm	█ 3	█ 11	---	---
Lead	ppm	█ 0	█ 2	---	---
Tin	ppm	█ <1	█ 0	---	---
Aluminum	ppm	█ 10	█ 8	---	---
Chromium	ppm	█ 2	█ 4	---	---
Molybdenum	ppm	█ 45	█ 11	---	---
Nickel	ppm	█ <1	█ 7	---	---
Titanium	ppm	<1	<1	---	---
Silver	ppm	█ 0	0	---	---
Manganese	ppm	█ <1	█ 4	---	---
Vanadium	ppm	<1	0	---	---



ADDITIVES

Calcium	ppm	█ 1558	█ 2110	---	---
Magnesium	ppm	█ 518	█ 253	---	---
Zinc	ppm	█ 1213	█ 1042	---	---
Phosphorus	ppm	█ 834	█ 949	---	---
Barium	ppm	█ 11	█ 0	---	---
Boron	ppm	█ 34	█ 3	---	---

Depot: VOLVO0095
Unique No: 10882813
Signed: Wes Davis
Report Date: 16 Feb 2024



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GRAPHS

