



CONSTRUCTION EQUIPMENT

VOLVO EC350EL 314163 - DIESEL ENGINE



Sample No: VCP437083
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437083	VCP411345	---	---
Sample Date	13 Mar 2024	30 May 2023	---	---
Machine Hours	2494	1984	---	---
Oil Hours	0	500	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.0	---	---
Base Number (BN)	mg KOH/g	8.9	9.0	---	---
Oxidation (PA)	%	79	81	---	---

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 %	%	0.1	0.1	---	---
Nitration (PA)	%	66	72	---	---
Sulfation (PA)	%	59	59	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	0.6	---	---
Silicon	ppm	5	4	---	---
Sodium	ppm	<1	2	---	---
Potassium	ppm	1	0	---	---



WEAR METALS

Iron	ppm	6	5	---	---
Copper	ppm	2	2	---	---
Lead	ppm	<1	0	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	2	0	---	---
Chromium	ppm	<1	0	---	---
Molybdenum	ppm	54	90	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1743	1724	---	---
Magnesium	ppm	461	452	---	---
Zinc	ppm	1170	1082	---	---
Phosphorus	ppm	999	903	---	---
Barium	ppm	0	0	---	---
Boron	ppm	42	40	---	---

Depot: VOLVO0093
Unique No: 10940249
Signed: Wes Davis
Report Date: 22 Mar 2024



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GRAPHS

