



CONSTRUCTION EQUIPMENT

VOLVO EC220EL 315670 - DIESEL ENGINE



Sample No: VCP438455
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP438455	VCP435538	VCP433588	---
Sample Date	23 Apr 2024	13 Feb 2024	03 Nov 2023	---
Machine Hours	1935	1394	582	---
Oil Hours	0	0	0	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ATTENTION	NORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	13.3	12.0	12.9	---
Base Number (BN)	mg KOH/g	7.6	5.4	5.9	---
Oxidation (PA)	%	89	65	53	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	83	64	58	---
Sulfation (PA)	%	63	55	56	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	0.6	<1.0	---
Silicon	ppm	8	10	15	---
Sodium	ppm	1	3	0	---
Potassium	ppm	2	2	3	---



WEAR METALS

Iron	ppm	9	10	16	---
Copper	ppm	1	2	8	---
Lead	ppm	1	2	2	---
Tin	ppm	<1	<1	2	---
Aluminum	ppm	2	4	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	55	114	32	---
Nickel	ppm	0	<1	4	---
Titanium	ppm	<1	<1	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	0	2	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1568	1752	1823	---
Magnesium	ppm	443	522	180	---
Zinc	ppm	1185	1592	1073	---
Phosphorus	ppm	993	1355	977	---
Barium	ppm	0	10	6	---
Boron	ppm	71	225	92	---

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.

Depot: VOLVO0090
Unique No: 11004816
Signed: Wes Davis
Report Date: 01 May 2024



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GRAPHS

