



CONSTRUCTION EQUIPMENT

VOLVO EC220EL 314575 - DIESEL ENGINE



Sample No: VCP451257
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP451257	VCP400664	---	---
Sample Date	01 May 2024	19 Oct 2023	---	---
Machine Hours	3102	2405	---	---
Oil Hours	0	0	---	---
Oil Changed	Changed	Changed	---	---
Sample Status	NORMAL	NORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	13.7	13.7	---	---
Base Number (BN)	mg KOH/g	8.6	6.2	---	---
Oxidation (PA)	%	77	57	---	---

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	0.1	---	---
Nitration (PA)	%	68	78	---	---
Sulfation (PA)	%	58	52	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	7	7	---	---
Sodium	ppm	2	3	---	---
Potassium	ppm	2	1	---	---



WEAR METALS

Iron	ppm	12	7	---	---
Copper	ppm	2	<1	---	---
Lead	ppm	<1	1	---	---
Tin	ppm	<1	2	---	---
Aluminum	ppm	4	4	---	---
Chromium	ppm	<1	<1	---	---
Molybdenum	ppm	52	88	---	---
Nickel	ppm	<1	<1	---	---
Titanium	ppm	<1	0	---	---
Silver	ppm	0	<1	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	<1	---	---



ADDITIVES

Calcium	ppm	1563	2351	---	---
Magnesium	ppm	411	29	---	---
Zinc	ppm	1013	1384	---	---
Phosphorus	ppm	899	1123	---	---
Barium	ppm	0	0	---	---
Boron	ppm	32	30	---	---

Depot: VOLVO0090
Unique No: 11015847
Signed: Wes Davis
Report Date: 07 May 2024



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GRAPHS

