



CONSTRUCTION EQUIPMENT

633029 ACEROS RECYC VOLVO L220H 3391 - DIESEL ENGINE



Sample No: VCP429920
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 633029 ACEROS RECYC



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SAMPLE INFORMATION

Sample Number	VCP429920	VCP424494	VCP395719	---
Sample Date	07 Nov 2023	02 Jun 2023	01 Mar 2023	---
Machine Hours	1968	1016	580	---
Oil Hours	1000	500	580	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---



OIL CONDITION

Visc @ 100°C	cSt	12.6	12.5	▲ 11.1	---
Base Number (BN)	mg KOH/g	9.3	9.2	6.8	---
Oxidation (PA)	%	84	82	59	---



CONTAMINATION

Water	%	NEG	NEG	NEG	---
Soot %	%	0.2	0.1	0.1	---
Nitration (PA)	%	64	57	78	---
Sulfation (PA)	%	62	62	55	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	7	7	24	---
Sodium	ppm	2	2	1	---
Potassium	ppm	2	<1	14	---



WEAR METALS

Iron	ppm	8	5	12	---
Copper	ppm	7	▲ 54	▲ 444	---
Lead	ppm	<1	0	1	---
Tin	ppm	1	<1	2	---
Aluminum	ppm	2	0	4	---
Chromium	ppm	0	0	<1	---
Molybdenum	ppm	40	45	84	---
Nickel	ppm	0	0	1	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	<1	<1	2	---
Vanadium	ppm	0	0	<1	---



ADDITIVES

Calcium	ppm	1573	1689	2109	---
Magnesium	ppm	505	464	64	---
Zinc	ppm	1066	1073	1131	---
Phosphorus	ppm	864	874	940	---
Barium	ppm	0	0	3	---
Boron	ppm	21	40	44	---

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: VOLVO0093
Unique No: 10764774
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

