



CONSTRUCTION EQUIPMENT

GENERAL RV VOLVO L20H 220368 - DIESEL ENGINE



Sample No: VCP428546
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: GENERAL RV



SAMPLE INFORMATION

Sample Number	VCP428546	VCP398983	VCP351715	---
Sample Date	31 Oct 2023	22 Dec 2022	21 Feb 2022	---
Machine Hours	1306	713	266	---
Oil Hours	0	500	500	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ATTENTION	---

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.9	▲ 11.1	---
Base Number (BN)	mg KOH/g	9.7	10.2	11.3	---
Oxidation (PA)	%	85	82	85	---

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	NEG	---
Soot %	%	0.1	0.1	0.1	---
Nitration (PA)	%	68	65	62	---
Sulfation (PA)	%	61	60	63	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.0	---
Silicon	ppm	6	9	15	---
Sodium	ppm	2	4	3	---
Potassium	ppm	1	0	0	---



WEAR METALS

Iron	ppm	5	6	9	---
Copper	ppm	1	2	7	---
Lead	ppm	0	0	<1	---
Tin	ppm	0	<1	0	---
Aluminum	ppm	1	1	2	---
Chromium	ppm	<1	<1	<1	---
Molybdenum	ppm	46	41	34	---
Nickel	ppm	0	0	0	---
Titanium	ppm	0	0	<1	---
Silver	ppm	0	0	0	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	0	0	0	---



ADDITIVES

Calcium	ppm	1663	1751	1768	---
Magnesium	ppm	498	518	439	---
Zinc	ppm	1088	1132	978	---
Phosphorus	ppm	870	928	862	---
Barium	ppm	2	0	0	---
Boron	ppm	41	42	47	---

Depot: VOLVO0093
Unique No: 10776022
Signed: Wes Davis
Report Date: 07 Dec 2023



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GRAPHS

