



CONSTRUCTION EQUIPMENT

GENERAL RV VOLVO L20H 1220370 - DIESEL ENGINE



Sample No: VCP432460
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: GENERAL RV



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SAMPLE INFORMATION

Sample Number	VCP432460	VCP423509	VCP398977	VCP385876
Sample Date	31 Oct 2023	31 Mar 2023	22 Dec 2022	20 Sep 2022
Machine Hours	3907	2832	2297	1791
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

OIL CONDITION

Visc @ 100°C	cSt	12.6	13.0	13.1	13.4
Base Number (BN)	mg KOH/g	9.8	10.1	10.0	11.3
Oxidation (PA)	%	80	83	80	93

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0	0.1	0.1	0.1
Nitration (PA)	%	60	61	64	73
Sulfation (PA)	%	58	61	60	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	6	8
Sodium	ppm	<1	2	4	4
Potassium	ppm	1	1	<1	2

WEAR METALS

Iron	ppm	3	4	4	4
Copper	ppm	0	<1	<1	2
Lead	ppm	0	0	<1	1
Tin	ppm	0	0	<1	<1
Aluminum	ppm	1	1	<1	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	45	48	43	40
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	1

ADDITIVES

Calcium	ppm	1629	1744	1707	1705
Magnesium	ppm	476	563	518	522
Zinc	ppm	1049	1243	1121	1124
Phosphorus	ppm	838	981	914	931
Barium	ppm	2	0	0	0
Boron	ppm	44	48	46	31

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: 10776004
Signed: Wes Davis
Report Date: 07 Dec 2023



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GRAPHS

