



CONSTRUCTION EQUIPMENT

GENERAL RV VOLVO L20H 1220371 - DIESEL ENGINE



Sample No: VCP451202
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: GENERAL RV



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SAMPLE INFORMATION

Sample Number	VCP451202	VCP420235	VCP385377	VCP351719
Sample Date	29 Apr 2024	20 Apr 2023	20 Sep 2022	22 Feb 2022
Machine Hours	2478	1557	1077	687
Oil Hours	0	480	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION



OIL CONDITION

Visc @ 100°C	cSt	13.1	12.8	13.1	11.1
Base Number (BN)	mg KOH/g	8.9	8.5	11.0	10.2
Oxidation (PA)	%	76	81	93	91



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0	0.1	0.1
Nitration (PA)	%	68	62	78	75
Sulfation (PA)	%	59	57	68	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.0
Silicon	ppm	5	6	11	16
Sodium	ppm	2	2	5	3
Potassium	ppm	1	<1	1	0



WEAR METALS

Iron	ppm	5	3	6	12
Copper	ppm	2	1	4	10
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	0
Aluminum	ppm	1	<1	3	3
Chromium	ppm	<1	0	1	<1
Molybdenum	ppm	43	35	39	35
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	2
Vanadium	ppm	0	<1	1	0



ADDITIVES

Calcium	ppm	1620	1387	1701	1810
Magnesium	ppm	501	439	520	443
Zinc	ppm	1104	886	1143	985
Phosphorus	ppm	1005	726	948	857
Barium	ppm	1	0	0	0
Boron	ppm	51	36	28	34

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: 11057090
Signed: Wes Davis
Report Date: 31 May 2024



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GRAPHS

