



CONSTRUCTION EQUIPMENT

SPM621184 GENERAL RV VOLVO L20H 1220361 - DIESEL ENGINE



Sample No: VCP428720
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM621184 GENERAL RV



SAMPLE INFORMATION

Sample Number	VCP428720	VCP381660	VCP354832	VCP355937
Sample Date	25 Oct 2023	16 Dec 2022	20 Jun 2022	06 Mar 2022
Machine Hours	2884	1888	1402	886
Oil Hours	0	0	0	886
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	13.4	13.5	13.7	▲ 11.7
Base Number (BN)	mg KOH/g	10.2	9.2	10.5	8.3
Oxidation (PA)	%	92	78	101	102

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

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	78	87	91	93
Sulfation (PA)	%	61	54	65	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	6	6	9	17
Sodium	ppm	2	1	3	4
Potassium	ppm	0	2	0	0



WEAR METALS

Iron	ppm	2	5	8	15
Copper	ppm	<1	2	5	16
Lead	ppm	0	1	<1	<1
Tin	ppm	0	<1	1	0
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	44	56	37	36
Nickel	ppm	<1	<1	<1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	<1	2
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1767	1422	1706	1844
Magnesium	ppm	586	935	481	459
Zinc	ppm	1298	1380	1121	1049
Phosphorus	ppm	1034	1062	884	908
Barium	ppm	0	0	0	0
Boron	ppm	45	11	55	45

Depot: VOLVO5023
Unique No: 10727207
Signed: Wes Davis
Report Date: 07 Nov 2023



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GRAPHS

