



CONSTRUCTION EQUIPMENT

SPM621186 GENERAL RV VOLVO L20H 1220294 - DIESEL ENGINE



Sample No: VCP434018
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM621186 GENERAL RV



SAMPLE INFORMATION

Sample Number	VCP434018	VCP404131	VCP395006	VCP354764
Sample Date	14 Nov 2023	10 Apr 2023	10 Jan 2023	28 Sep 2022
Machine Hours	5583	4492	3984	3481
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.5	14.5	14.3	13.9
Base Number (BN)	mg KOH/g	9.8	7.3	8.3	10.4
Oxidation (PA)	%	86	72	73	71

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	NEG
Soot %	%	0	0.1	0.1	0.1
Nitration (PA)	%	74	83	85	81
Sulfation (PA)	%	61	49	54	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	3	5	5
Sodium	ppm	2	0	<1	2
Potassium	ppm	<1	1	<1	<1



WEAR METALS

Iron	ppm	2	5	6	4
Copper	ppm	<1	<1	1	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	<1	0	<1	<1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	43	61	62	56
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1445	1098	1181	1105
Magnesium	ppm	624	926	1013	1017
Zinc	ppm	1159	1252	1380	1291
Phosphorus	ppm	948	1037	1044	1026
Barium	ppm	0	0	0	0
Boron	ppm	32	0	0	0

Depot: VOLVO5023
Unique No: 10764783
Signed: Wes Davis
Report Date: 30 Nov 2023



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GRAPHS

