



CONSTRUCTION EQUIPMENT

SPM606550 GENERAL RV VOLVO L20H 1220377 - DIESEL ENGINE



Sample No: VCP423236
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: SPM606550 GENERAL RV



SAMPLE INFORMATION

Sample Number	VCP423236	VCP419792	VCP368937	VCP366731
Sample Date	10 Nov 2023	25 Apr 2023	01 Dec 2022	04 Aug 2022
Machine Hours	2415	1915	1439	991
Oil Hours	0	500	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.7	14.1	13.2	13.3
Base Number (BN)	mg KOH/g	7.8	7.2	10.2	9.8
Oxidation (PA)	%	70	75	96	80

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 %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	80	74	84	84
Sulfation (PA)	%	54	53	68	60
Glycol	%	NEG	0.0	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	3	7	7
Sodium	ppm	0	2	3	0
Potassium	ppm	1	0	2	<1



WEAR METALS

Iron	ppm	5	3	6	7
Copper	ppm	1	33	107	117
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	2	<1	1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	62	56	50	56
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1063	1185	1576	1198
Magnesium	ppm	915	949	651	858
Zinc	ppm	1197	1304	1211	1247
Phosphorus	ppm	997	985	977	1027
Barium	ppm	0	0	0	0
Boron	ppm	0	4	32	9

Depot: VOLVO8885
Unique No: 10766830
Signed: Jonathan Hester
Report Date: 04 Dec 2023



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GRAPHS

