



CONSTRUCTION EQUIPMENT

SPM567082 RENTALS VOLVO L120H 632941 - DIESEL ENGINE



Sample No: VCP423174
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SPM567082 RENTALS



SAMPLE INFORMATION

Sample Number	VCP423174	VCP423171	VCP366913	VCP358335
Sample Date	21 Jun 2023	20 Jun 2023	14 Sep 2022	05 Apr 2022
Machine Hours	2611	2611	2013	1182
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	14.1	14.1	13.9	13.7
Base Number (BN)	mg KOH/g	10.0	9.4	9.7	10.1
Oxidation (PA)	%	55	68	77	74

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	0.4	0.4	0.3
Nitration (PA)	%	48	76	83	73
Sulfation (PA)	%	51	57	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	5	7	5
Sodium	ppm	<1	<1	3	1
Potassium	ppm	1	2	1	<1



WEAR METALS

Iron	ppm	3	19	18	18
Copper	ppm	1	5	6	5
Lead	ppm	0	<1	4	1
Tin	ppm	<1	1	<1	2
Aluminum	ppm	<1	11	3	9
Chromium	ppm	<1	2	1	2
Molybdenum	ppm	60	62	53	61
Nickel	ppm	0	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1039	1122	844	1439
Magnesium	ppm	1003	1030	862	831
Zinc	ppm	1312	1392	1025	1260
Phosphorus	ppm	1068	1093	994	1095
Barium	ppm	0	0	0	0
Boron	ppm	0	<1	<1	25

Depot: VOLVO8885
Unique No: 10548419
Signed: Wes Davis
Report Date: 10 Jul 2023



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GRAPHS

