



CONSTRUCTION EQUIPMENT

SW1028442 BALCONES R VOLVO L120H 633369 - DIESEL ENGINE



Sample No: VCP412314
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SW1028442 BALCONES R



SAMPLE INFORMATION

Sample Number	VCP412314	VCP423048	VCP412436	VCP406915
Sample Date	10 Jan 2024	20 Oct 2023	21 Aug 2023	24 May 2023
Machine Hours	2494	1954	1436	581
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.2	12.8	▲ 12.3	12.2
Base Number (BN)	mg KOH/g	7.5	8.2	7.1	9.1
Oxidation (PA)	%	104	86	109	87

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. 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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.4	0.3
Nitration (PA)	%	61	60	69	53
Sulfation (PA)	%	68	62	70	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.1	<1.0	<1.0	1.6
Silicon	ppm	19	20	▲ 29	24
Sodium	ppm	3	2	5	5
Potassium	ppm	<1	<1	4	4



WEAR METALS

Iron	ppm	11	10	30	31
Copper	ppm	6	11	▲ 34	18
Lead	ppm	2	4	8	4
Tin	ppm	1	2	4	3
Aluminum	ppm	4	4	▲ 12	47
Chromium	ppm	<1	<1	2	4
Molybdenum	ppm	45	48	46	52
Nickel	ppm	0	<1	<1	<1
Titanium	ppm	<1	0	<1	<1
Silver	ppm	0	<1	<1	<1
Manganese	ppm	<1	<1	2	3
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1444	1132	1586	1840
Magnesium	ppm	641	777	605	771
Zinc	ppm	1193	1130	1182	1428
Phosphorus	ppm	1011	918	920	1174
Barium	ppm	0	0	0	2
Boron	ppm	24	11	20	62

Depot: VOLVO6174
Unique No: 10836652
Signed: Doug Bogart
Report Date: 24 Jan 2024



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GRAPHS

