



CONSTRUCTION EQUIPMENT

1036529 BALCONES VOLVO L120H 633369 - DIESEL ENGINE



Sample No: VCP06219251
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: 1036529 BALCONES



SAMPLE INFORMATION

Sample Number	VCP06219251	VCP438170	VCP412314	VCP423048
Sample Date	18 Jun 2024	08 Mar 2024	10 Jan 2024	20 Oct 2023
Machine Hours	3669	2965	2494	1954
Oil Hours	0	0	0	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.7	12.2	12.8
Base Number (BN)	mg KOH/g	7.2	8.3	7.5	8.2
Oxidation (PA)	%	99	94	104	86

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.3	0.3	0.3
Nitration (PA)	%	65	59	61	60
Sulfation (PA)	%	68	65	68	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.1	<1.0
Silicon	ppm	18	14	19	20
Sodium	ppm	<1	1	3	2
Potassium	ppm	2	0	<1	<1

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.

WEAR METALS

Iron	ppm	14	9	11	10
Copper	ppm	10	4	6	11
Lead	ppm	8	1	2	4
Tin	ppm	2	1	1	2
Aluminum	ppm	4	4	4	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	54	49	45	48
Nickel	ppm	<1	0	0	<1
Titanium	ppm	<1	0	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0

ADDITIVES

Calcium	ppm	1183	1339	1444	1132
Magnesium	ppm	794	709	641	777
Zinc	ppm	1205	1171	1193	1130
Phosphorus	ppm	1059	984	1011	918
Barium	ppm	1	0	0	0
Boron	ppm	9	18	24	11

Depot: VOLVO6174
Unique No: 11097448
Signed: Wes Davis
Report Date: 25 Jun 2024



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GRAPHS

