



CONSTRUCTION EQUIPMENT

9824 VOLVO L180H 5100 - DIESEL ENGINE



Sample No: VCP426364
Oil Type: CHEVRON 15W40
Job No: 9824



SAMPLE INFORMATION

Sample Number	VCP426364	VCP367857	VCP404426	VCP363673
Sample Date	20 Oct 2023	14 Jul 2023	21 Mar 2023	07 Sep 2022
Machine Hours	12624	11909	10996	9707
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



RELIABLE CONTRACTING
 2410 EVERGREEN RD SUITE 200
 GAMBRILLS, MD
 US 21054
 Contact: RUSSELL HATFIELD
 RHATFIELD@RELIABLECONTRACTING.COM
 T: (410)987-1851
 F:



OIL CONDITION

Visc @ 100°C	cSt	13.1	13.1	12.6	12.9
Base Number (BN)	mg KOH/g	7.4	7.1	9.5	8.7
Oxidation (PA)	%	62	64	57	71



CONTAMINATION

Soot %	%	0.1	0.2	0.3	0.2
Nitration (PA)	%	56	65	58	68
Sulfation (PA)	%	60	61	53	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	7	5
Sodium	ppm	2	2	3	2
Potassium	ppm	0	<1	2	6



WEAR METALS

Iron	ppm	2	5	7	5
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	2	<1	3	4
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	85	94	119	123
Nickel	ppm	0	0	0	0
Titanium	ppm	2	1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1389	1445	1585	1395
Magnesium	ppm	415	467	621	494
Zinc	ppm	1297	1190	976	1017
Phosphorus	ppm	968	964	762	833
Barium	ppm	0	0	0	2
Boron	ppm	356	324	231	328

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.

Depot: RELMIL
Unique No: 10711612
Signed: Wes Davis
Report Date: 26 Oct 2023



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VOLVO GRAPHS

