



CONSTRUCTION EQUIPMENT

9939 VOLVO L50G 2420084 - DIESEL ENGINE



Sample No: VCP388518
Oil Type: CHEVRON 15W40
Job No: 9939



SAMPLE INFORMATION

Sample Number	VCP388518	VCP404106	VCP344234	VCP321666
Sample Date	20 Nov 2023	04 May 2023	23 Feb 2022	13 Jul 2021
Machine Hours	6883	6434	5794	5217
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

RELIABLE CONTRACTING
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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.0	12.5	13.3
Base Number (BN)	mg KOH/g	7.7	7.2	9.4	---
Oxidation (PA)	%	61	63	65	43

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	56	66	68	66
Sulfation (PA)	%	59	55	62	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	7	7	4
Sodium	ppm	2	1	1	2
Potassium	ppm	2	3	1	1

WEAR METALS

Iron	ppm	10	16	12	11
Copper	ppm	4	9	5	4
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	4	6	5	4
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	89	124	106	13
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	<1	1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1363	1638	1796	2357
Magnesium	ppm	412	678	568	129
Zinc	ppm	1212	898	1038	1104
Phosphorus	ppm	1091	711	869	946
Barium	ppm	0	0	0	0
Boron	ppm	363	280	268	31

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: 10756817
Signed: Wes Davis
Report Date: 28 Nov 2023



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GRAPHS

