



CONSTRUCTION EQUIPMENT

9864 WASTE CONNECT VOLVO L90G 617183 - DIESEL ENGINE



Sample No: VCP422877
Oil Type: CHEVRON 15W40
Job No: 9864 WASTE CONNECT



SAMPLE INFORMATION

Sample Number	VCP422877	VCP426377	VCP361249	VCP344990
Sample Date	01 Nov 2023	03 Oct 2023	01 Apr 2022	17 Feb 2022
Machine Hours	28261	28006	24810	24530
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	ABNORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.7	13.8	13.4	13.5
Base Number (BN)	mg KOH/g	7.6	7.0	9.6	9.5
Oxidation (PA)	%	60	59	68	68

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 %	%	0.3	0.3	0.3	0.2
Nitration (PA)	%	50	52	58	56
Sulfation (PA)	%	59	57	67	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	9	7	7
Sodium	ppm	2	1	<1	<1
Potassium	ppm	0	0	1	2



WEAR METALS

Iron	ppm	11	12	9	9
Copper	ppm	5	<1	<1	<1
Lead	ppm	0	0	0	<1
Tin	ppm	0	<1	0	<1
Aluminum	ppm	9	▲ 15	7	9
Chromium	ppm	<1	1	<1	1
Molybdenum	ppm	87	84	121	119
Nickel	ppm	<1	1	0	2
Titanium	ppm	3	3	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	0	<1



ADDITIVES

Calcium	ppm	1414	1356	1498	1642
Magnesium	ppm	421	399	652	723
Zinc	ppm	1339	1249	878	907
Phosphorus	ppm	1020	1033	706	769
Barium	ppm	0	0	0	0
Boron	ppm	400	348	293	304

Depot: VOLVO0150
Unique No: 10726084
Signed: Wes Davis
Report Date: 06 Nov 2023



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GRAPHS

