



CONSTRUCTION EQUIPMENT

9992 WASTE CONN VOLVO L90G 617183 - DIESEL ENGINE



Sample No: VCP388514

Oil Type: CHEVRON 15W40

Job No: 9992 WASTE CONN



SAMPLE INFORMATION

Sample Number	VCP388514	VCP422877	VCP426377	VCP361249
Sample Date	07 Dec 2023	01 Nov 2023	03 Oct 2023	01 Apr 2022
Machine Hours	28551	28261	28006	24810
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	13.6	13.7	13.8	13.4
Base Number (BN)	mg KOH/g	7.5	7.6	7.0	9.6
Oxidation (PA)	%	59	60	59	68



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	50	50	52	58
Sulfation (PA)	%	58	59	57	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	8	12	9	7
Sodium	ppm	0	2	1	<1
Potassium	ppm	2	0	0	1



WEAR METALS

Iron	ppm	12	11	12	9
Copper	ppm	<1	5	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	8	9	▲ 15	7
Chromium	ppm	1	<1	1	<1
Molybdenum	ppm	89	87	84	121
Nickel	ppm	2	<1	1	0
Titanium	ppm	2	3	3	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1333	1414	1356	1498
Magnesium	ppm	381	421	399	652
Zinc	ppm	1183	1339	1249	878
Phosphorus	ppm	946	1020	1033	706
Barium	ppm	11	0	0	0
Boron	ppm	406	400	348	293

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: VOLV00150
Unique No: 10782867
Signed: Wes Davis
Report Date: 14 Dec 2023



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GRAPHS

