



CONSTRUCTION EQUIPMENT

10204 WASTE CONN VOLVO L90G 617183 - DIESEL ENGINE



Sample No: VCP447907
Oil Type: CHEVRON 15W40
Job No: 10204 WASTE CONN



SAMPLE INFORMATION

Sample Number	VCP447907	VCP388514	VCP422877	VCP426377
Sample Date	11 Jan 2024	07 Dec 2023	01 Nov 2023	03 Oct 2023
Machine Hours	28818	28551	28261	28006
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.7	13.6	13.7	13.8
Base Number (BN)	mg KOH/g	8.1	7.5	7.6	7.0
Oxidation (PA)	%	63	59	60	59

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

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	53	50	50	52
Sulfation (PA)	%	61	58	59	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	12	9
Sodium	ppm	<1	0	2	1
Potassium	ppm	<1	2	0	0



WEAR METALS

Iron	ppm	7	12	11	12
Copper	ppm	1	<1	5	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	6	8	9	▲ 15
Chromium	ppm	0	1	<1	1
Molybdenum	ppm	106	89	87	84
Nickel	ppm	<1	2	<1	1
Titanium	ppm	<1	2	3	3
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1431	1333	1414	1356
Magnesium	ppm	533	381	421	399
Zinc	ppm	1124	1183	1339	1249
Phosphorus	ppm	961	946	1020	1033
Barium	ppm	0	11	0	0
Boron	ppm	347	406	400	348

Depot: VOLV00150
Unique No: 10834661
Signed: Wes Davis
Report Date: 18 Jan 2024



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GRAPHS

