



CONSTRUCTION EQUIPMENT

A11345 VOLVO L150G 23510 - DIESEL ENGINE



Sample No: VCP430946
Oil Type: MOBIL 15W40
Job No: A11345



SAMPLE INFORMATION

Sample Number	VCP430946	VCP416455	VCP365734	VCP321610
Sample Date	25 Oct 2023	20 Jul 2023	07 Dec 2022	15 Jun 2021
Machine Hours	10150	9618	7814	4745
Oil Hours	500	0	0	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	NORMAL

COVANTA ENERGY

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OIL CONDITION

Visc @ 100°C	cSt	12.7	13.1	12.9	12.8
Base Number (BN)	mg KOH/g	6.7	8.8	10.8	---
Oxidation (PA)	%	60	82	84	81



CONTAMINATION

Soot %	%	0.2	0.4	0.5	0.1
Nitration (PA)	%	58	76	75	47
Sulfation (PA)	%	55	60	66	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	15	13	▲ 20	6
Sodium	ppm	2	4	3	3
Potassium	ppm	2	1	2	2



WEAR METALS

Iron	ppm	8	12	17	23
Copper	ppm	<1	<1	1	2
Lead	ppm	0	<1	<1	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	10	8	▲ 10	3
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	75	43	45	42
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1438	1772	1681	1590
Magnesium	ppm	282	526	495	501
Zinc	ppm	1098	1171	1119	1064
Phosphorus	ppm	944	922	912	904
Barium	ppm	7	0	0	0
Boron	ppm	242	33	24	76

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: COVCHE
Unique No: 1073792
Signed: Wes Davis
Report Date: 10 Nov 2023



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GRAPHS

