



CONSTRUCTION EQUIPMENT

A12510 OLD CASTLE VOLVO L150H 7123 - DIESEL ENGINE



Sample No: VCP449558
Oil Type: MOBIL 15W40
Job No: A12510 OLD CASTLE



SAMPLE INFORMATION

Sample Number	VCP449558	VCP428663	VCP431260	VCP400763
Sample Date	24 Apr 2024	11 Jan 2024	03 Oct 2023	10 May 2023
Machine Hours	2523	1970	1546	1020
Oil Hours	500	500	0	500
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	ABNORMAL	ABNORMAL

HOFFMAN EQUIPMENT - LIONVILLE
120 GORDON DRIVE
LIONVILLE, PA
US 19341
Contact: JIM FEHR
jim.fehr@hoffmanequip.com
T: (610)363-9200
F: (610)594-0829



OIL CONDITION

Visc @ 100°C	cSt	12.8	13.2	12.9	11.8
Base Number (BN)	mg KOH/g	6.6	8.7	6.6	7.7
Oxidation (PA)	%	39	62	38	45

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 %	%	0.1	0.1	0.1	0
Nitration (PA)	%	57	61	56	56
Sulfation (PA)	%	45	53	45	47
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	7
Sodium	ppm	0	2	<1	<1
Potassium	ppm	4	2	<1	2



WEAR METALS

Iron	ppm	3	2	3	3
Copper	ppm	3	8	41	31
Lead	ppm	<1	<1	1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	2	<1	11	4
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	11	43	13	28
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	<1
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	<1	0	<1
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	2090	1503	2044	1901
Magnesium	ppm	104	496	130	340
Zinc	ppm	1032	1215	1184	1196
Phosphorus	ppm	893	1032	935	946
Barium	ppm	0	0	0	0
Boron	ppm	8	39	6	10

Depot: VOLVO8879
Unique No: 11032255
Signed: Wes Davis
Report Date: 16 May 2024



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GRAPHS

