



CONSTRUCTION EQUIPMENT

11150 BOCKLEY CONSTR VOLVO L60H 621942 - DIESEL ENGINE



Sample No: VCP440553
Oil Type: MOBIL 15W40
Job No: 11150 BOCKLEY CONSTR



SAMPLE INFORMATION

Sample Number	VCP440553	VCP422788	VCP399119	VCP390861
Sample Date	18 Sep 2023	17 May 2023	19 Jan 2023	15 Sep 2022
Machine Hours	3630	2980	2482	2015
Oil Hours	0	500	0	500
Oil Changed	N/A	Changed	Changed	N/A
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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	13.5	13.3	13.6	13.1
Base Number (BN)	mg KOH/g	7.0	10.4	9.0	12.1
Oxidation (PA)	%	53	83	59	88



CONTAMINATION

Soot %	%	0	0.2	0.2	0.2
Nitration (PA)	%	71	61	63	66
Sulfation (PA)	%	59	61	51	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	5	5
Sodium	ppm	5	3	0	3
Potassium	ppm	2	2	<1	0



WEAR METALS

Iron	ppm	14	10	11	12
Copper	ppm	5	1	1	1
Lead	ppm	<1	0	1	0
Tin	ppm	1	<1	1	<1
Aluminum	ppm	0	0	3	2
Chromium	ppm	<1	<1	1	<1
Molybdenum	ppm	15	42	46	43
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	2243	1862	1689	1842
Magnesium	ppm	163	555	680	546
Zinc	ppm	1121	1237	1310	1202
Phosphorus	ppm	928	975	1042	970
Barium	ppm	0	0	0	0
Boron	ppm	8	46	15	42

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: VOLVO8879
Unique No: 10659177
Signed: Wes Davis
Report Date: 22 Sep 2023



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GRAPHS

