



CONSTRUCTION EQUIPMENT

VOLVO L110H 05632247 - DIESEL ENGINE



Sample No: VCP407178
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP407178	VCP407672	VCP306594	---
Sample Date	30 Jun 2023	17 May 2023	01 Feb 2023	---
Machine Hours	4437	4033	3086	---
Oil Hours	0	947	1044	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	ABNORMAL	ABNORMAL	---

CITY CARTING
 221 OLD GATE LN
 MILFORD, CT
 US 06460
 Contact: TAVINS BANKS
 tavins@citycart.net
 T: (203)223-3885
 F:



OIL CONDITION

Visc @ 100°C	cSt	12.8	12.9	▲ 12.3	---
Base Number (BN)	mg KOH/g	7.7	8.9	6.1	---
Oxidation (PA)	%	52	90	73	---

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

Soot %	%	0.2	0.3	0.3	---
Nitration (PA)	%	61	71	78	---
Sulfation (PA)	%	50	64	58	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	1.1	---
Silicon	ppm	5	9	10	---
Sodium	ppm	2	3	2	---
Potassium	ppm	5	1	0	---



WEAR METALS

Iron	ppm	7	19	25	---
Copper	ppm	2	5	▲ 18	---
Lead	ppm	<1	1	4	---
Tin	ppm	<1	1	2	---
Aluminum	ppm	6	▲ 12	▲ 16	---
Chromium	ppm	<1	1	2	---
Molybdenum	ppm	33	50	80	---
Nickel	ppm	0	<1	0	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	0	<1	---
Manganese	ppm	<1	<1	<1	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	2053	1910	1946	---
Magnesium	ppm	162	461	193	---
Zinc	ppm	1048	1203	1087	---
Phosphorus	ppm	862	939	868	---
Barium	ppm	0	0	2	---
Boron	ppm	19	32	33	---

Depot: CITMILCON
Unique No: 10552938
Signed: Wes Davis
Report Date: 13 Jul 2023



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GRAPHS

