



CONSTRUCTION EQUIPMENT

VOLVO L110H 05632247 - DIESEL ENGINE



Sample No: VCP453895
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP453895	VCP438764	VCP436454	VCP436562
Sample Date	11 Jun 2024	10 May 2024	09 Apr 2024	12 Mar 2024
Machine Hours	7473	7201	6919	6669
Oil Hours	0	0	250	258
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ABNORMAL	NORMAL	NORMAL

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



OIL CONDITION

Visc @ 100°C	cSt	11.22	11.9	12.6	12.4
Base Number (BN)	mg KOH/g	6.3	6.5	6.9	7.0
Oxidation (PA)	%	35	36	36	37

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. Fuel content negligible. There is no indication of any contamination in the oil. The oil viscosity is lower than normal. The BN result indicates that there is suitable alkalinity remaining in the oil. Confirm oil type.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	48	48	48	51
Sulfation (PA)	%	43	43	43	43
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.4	6.7	<1.0	<1.0
Silicon	ppm	4	8	4	4
Sodium	ppm	<1	3	<1	<1
Potassium	ppm	2	4	<1	<1



WEAR METALS

Iron	ppm	<1	6	4	3
Copper	ppm	0	3	<1	<1
Lead	ppm	0	3	0	0
Tin	ppm	0	3	1	0
Aluminum	ppm	3	6	2	2
Chromium	ppm	<1	3	0	<1
Molybdenum	ppm	71	47	22	25
Nickel	ppm	0	3	0	0
Titanium	ppm	0	2	0	0
Silver	ppm	0	3	0	0
Manganese	ppm	0	2	0	<1
Vanadium	ppm	0	2	0	0



ADDITIVES

Calcium	ppm	1772	1879	2069	1997
Magnesium	ppm	234	167	150	179
Zinc	ppm	995	922	944	976
Phosphorus	ppm	773	788	792	840
Barium	ppm	0	2	0	0
Boron	ppm	41	36	31	26

Depot: CITMILCON
Unique No: 11098962
Signed: Jonathan Hester
Report Date: 01 Jul 2024



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VOLVO GRAPHS

