



CONSTRUCTION EQUIPMENT

VOLVO L110H 05632247 - DIESEL ENGINE



Sample No: VCP407125
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP407125	VCP407933	VCP407178	VCP407672
Sample Date	16 Oct 2023	09 Aug 2023	30 Jun 2023	17 May 2023
Machine Hours	5396	4793	4437	4033
Oil Hours	0	356	0	947
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	ABNORMAL

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	12.4	12.5	12.8	12.9
Base Number (BN)	mg KOH/g	6.3	6.6	7.7	8.9
Oxidation (PA)	%	45	42	52	90

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. Confirm oil type. The condition of the oil is suitable for further service.



CONTAMINATION

Soot %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	58	55	61	71
Sulfation (PA)	%	49	47	50	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	5	9
Sodium	ppm	2	0	2	3
Potassium	ppm	0	1	5	1



WEAR METALS

Iron	ppm	6	6	7	19
Copper	ppm	<1	0	2	5
Lead	ppm	0	<1	<1	1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	4	3	6	▲ 12
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	30	46	33	50
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	2032	2107	2053	1910
Magnesium	ppm	136	164	162	461
Zinc	ppm	1021	1069	1048	1203
Phosphorus	ppm	728	844	862	939
Barium	ppm	0	0	0	0
Boron	ppm	12	21	19	32

Depot: CITMILCON
Unique No: 10711601
Signed: Sean Felton
Report Date: 27 Oct 2023



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GRAPHS

