



CONSTRUCTION EQUIPMENT

VOLVO L150H 6989 - DIESEL ENGINE



Sample No: VCP443834
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP443834	VCP436472	VCP437116	VCP432597
Sample Date	13 Jun 2024	09 May 2024	27 Mar 2024	22 Feb 2024
Machine Hours	7304	7072	6748	6479
Oil Hours	232	324	269	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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	10.8	11.6	12.0	11.8
Base Number (BN)	mg KOH/g	6.1	6.5	7.3	7.0
Oxidation (PA)	%	33	34	35	41

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. 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)	%	47	50	52	51
Sulfation (PA)	%	42	43	43	44
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	10	4	6
Sodium	ppm	<1	4	<1	2
Potassium	ppm	2	5	1	<1



WEAR METALS

Iron	ppm	0	7	4	4
Copper	ppm	0	4	1	9
Lead	ppm	0	3	0	<1
Tin	ppm	0	3	0	<1
Aluminum	ppm	2	5	<1	2
Chromium	ppm	<1	2	0	<1
Molybdenum	ppm	74	61	26	55
Nickel	ppm	0	3	0	<1
Titanium	ppm	0	2	0	<1
Silver	ppm	0	3	0	0
Manganese	ppm	0	2	0	<1
Vanadium	ppm	0	2	0	0



ADDITIVES

Calcium	ppm	1732	2340	2252	1898
Magnesium	ppm	220	228	203	132
Zinc	ppm	951	1148	1096	1059
Phosphorus	ppm	706	985	963	888
Barium	ppm	0	3	0	0
Boron	ppm	46	46	23	42

Depot: CITMILCON
Unique No: 11098966
Signed: Jonathan Hester
Report Date: 27 Jun 2024



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VOLVO GRAPHS

