



CONSTRUCTION EQUIPMENT

VOLVO L150H 6989 - DIESEL ENGINE



Sample No: VCP432597
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP432597	VCP438663	VCP407074	VCP431297
Sample Date	22 Feb 2024	25 Jan 2024	15 Dec 2023	17 Nov 2023
Machine Hours	6479	0	5961	5752
Oil Hours	0	0	0	365
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

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	11.8	11.3	12.3	12.9
Base Number (BN)	mg KOH/g	7.0	6.5	7.0	8.3
Oxidation (PA)	%	41	33	37	54

Diagnosis

The oil 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)	%	51	48	48	56
Sulfation (PA)	%	44	42	43	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.6	<1.0
Silicon	ppm	6	5	5	7
Sodium	ppm	2	<1	<1	2
Potassium	ppm	<1	4	2	2



WEAR METALS

Iron	ppm	4	1	<1	2
Copper	ppm	9	<1	0	<1
Lead	ppm	<1	1	0	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	1	1
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	55	25	45	31
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1898	1696	1880	1883
Magnesium	ppm	132	113	170	245
Zinc	ppm	1059	919	931	954
Phosphorus	ppm	888	813	729	866
Barium	ppm	0	0	<1	0
Boron	ppm	42	17	27	25

Depot: CITMILCON
Unique No: 10902245
Signed: Don Baldrige
Report Date: 02 Mar 2024



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GRAPHS

