



CONSTRUCTION EQUIPMENT

VOLVO L150H 6989 - DIESEL ENGINE



Sample No: VCP436472
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP436472	VCP437116	VCP432597	VCP438663
Sample Date	09 May 2024	27 Mar 2024	22 Feb 2024	25 Jan 2024
Machine Hours	7072	6748	6479	0
Oil Hours	324	269	0	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	11.6	12.0	11.8	11.3
Base Number (BN)	mg KOH/g	6.5	7.3	7.0	6.5
Oxidation (PA)	%	34	35	41	33

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)	%	50	52	51	48
Sulfation (PA)	%	43	43	44	42
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	10	4	6	5
Sodium	ppm	4	<1	2	<1
Potassium	ppm	5	1	<1	4



WEAR METALS

Iron	ppm	7	4	4	1
Copper	ppm	4	1	9	<1
Lead	ppm	3	0	<1	1
Tin	ppm	3	0	<1	<1
Aluminum	ppm	5	<1	2	2
Chromium	ppm	2	0	<1	0
Molybdenum	ppm	61	26	55	25
Nickel	ppm	3	0	<1	<1
Titanium	ppm	2	0	<1	0
Silver	ppm	3	0	0	0
Manganese	ppm	2	0	<1	<1
Vanadium	ppm	2	0	0	<1



ADDITIVES

Calcium	ppm	2340	2252	1898	1696
Magnesium	ppm	228	203	132	113
Zinc	ppm	1148	1096	1059	919
Phosphorus	ppm	985	963	888	813
Barium	ppm	3	0	0	0
Boron	ppm	46	23	42	17

Depot: CITMILCON
Unique No: 11033696
Signed: Don Baldrige
Report Date: 20 May 2024



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GRAPHS

