



# CONSTRUCTION EQUIPMENT

## VOLVO L150H 6989 - DIESEL ENGINE



**Sample No:** VCP437116  
**Oil Type:** VALVOLINE 15W40  
**Job No:**



### SAMPLE INFORMATION

Sample Number	VCP437116	VCP432597	VCP438663	VCP407074
Sample Date	27 Mar 2024	22 Feb 2024	25 Jan 2024	15 Dec 2023
Machine Hours	6748	6479	0	5961
Oil Hours	269	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	NORMAL

**CITY CARTING**  
 221 OLD GATE LN  
 MILFORD, CT  
 US 06460  
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### OIL CONDITION

Visc @ 100°C	cSt	12.0	11.8	11.3	12.3
Base Number (BN)	mg KOH/g	7.3	7.0	6.5	7.0
Oxidation (PA)	%	35	41	33	37



### CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	52	51	48	48
Sulfation (PA)	%	43	44	42	43
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.6
Silicon	ppm	4	6	5	5
Sodium	ppm	<1	2	<1	<1
Potassium	ppm	1	<1	4	2



### WEAR METALS

Iron	ppm	4	4	1	<1
Copper	ppm	1	9	<1	0
Lead	ppm	0	<1	1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	2	2	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	26	55	25	45
Nickel	ppm	0	<1	<1	0
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



### ADDITIVES

Calcium	ppm	2252	1898	1696	1880
Magnesium	ppm	203	132	113	170
Zinc	ppm	1096	1059	919	931
Phosphorus	ppm	963	888	813	729
Barium	ppm	0	0	0	<1
Boron	ppm	23	42	17	27

### 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.

**Depot:** CITMILCON  
**Unique No:** 10964493  
**Signed:** Don Baldrige  
**Report Date:** 07 Apr 2024



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## GRAPHS

