



CONSTRUCTION EQUIPMENT

VOLVO L150H 6989 - DIESEL ENGINE



Sample No: VCP452636
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP452636	VCP443834	VCP436472	VCP437116
Sample Date	07 Jul 2024	13 Jun 2024	09 May 2024	27 Mar 2024
Machine Hours	7460	7304	7072	6748
Oil Hours	0	232	324	269
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	11.1	10.8	11.6	12.0
Base Number (BN)	mg KOH/g	6.7	6.1	6.5	7.3
Oxidation (PA)	%	35	33	34	35

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	46	47	50	52
Sulfation (PA)	%	41	42	43	43
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	10	4
Sodium	ppm	<1	<1	4	<1
Potassium	ppm	2	2	5	1

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.

WEAR METALS

Iron	ppm	2	0	7	4
Copper	ppm	0	0	4	1
Lead	ppm	<1	0	3	0
Tin	ppm	<1	0	3	0
Aluminum	ppm	2	2	5	<1
Chromium	ppm	0	<1	2	0
Molybdenum	ppm	75	74	61	26
Nickel	ppm	<1	0	3	0
Titanium	ppm	0	0	2	0
Silver	ppm	0	0	3	0
Manganese	ppm	0	0	2	0
Vanadium	ppm	0	0	2	0

ADDITIVES

Calcium	ppm	1795	1732	2340	2252
Magnesium	ppm	254	220	228	203
Zinc	ppm	1049	951	1148	1096
Phosphorus	ppm	875	706	985	963
Barium	ppm	0	0	3	0
Boron	ppm	71	46	46	23

Depot: CITMILCON
Unique No: 11123242
Signed: Don Baldrige
Report Date: 14 Jul 2024



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GRAPHS

