



CONSTRUCTION EQUIPMENT

VOLVO L120H 633400 - DIESEL ENGINE



Sample No: VCP443994
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP443994	VCP436488	VCP438997	VCP437215
Sample Date	13 Jun 2024	08 May 2024	12 Apr 2024	20 Mar 2024
Machine Hours	3134	2798	0	2323
Oil Hours	0	0	0	290
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	11.2	12.0	11.3	12.4
Base Number (BN)	mg KOH/g	6.4	6.6	7.0	7.1
Oxidation (PA)	%	35	35	43	37



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	53	51	54	55
Sulfation (PA)	%	44	43	46	45
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	11	11	8	7
Sodium	ppm	1	3	1	0
Potassium	ppm	2	4	<1	0



WEAR METALS

Iron	ppm	3	8	5	7
Copper	ppm	<1	3	<1	2
Lead	ppm	0	2	0	0
Tin	ppm	0	3	1	0
Aluminum	ppm	4	6	3	3
Chromium	ppm	<1	3	<1	0
Molybdenum	ppm	70	55	79	22
Nickel	ppm	0	3	0	0
Titanium	ppm	0	2	0	0
Silver	ppm	0	3	0	0
Manganese	ppm	0	2	0	0
Vanadium	ppm	0	2	0	0



ADDITIVES

Calcium	ppm	1778	1859	1799	2135
Magnesium	ppm	220	185	260	198
Zinc	ppm	1008	956	981	1037
Phosphorus	ppm	776	815	819	899
Barium	ppm	<1	2	0	0
Boron	ppm	28	40	77	17

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.

Depot: CITMILCON
Unique No: 11098963
Signed: Jonathan Hester
Report Date: 26 Jun 2024



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VOLVO GRAPHS

