



CONSTRUCTION EQUIPMENT

VOLVO EC250EL 314172 - DIESEL ENGINE



Sample No: VCP438767
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP438767	VCP407112	VCP437126	VCP434046
Sample Date	14 May 2024	06 Mar 2024	23 Jan 2024	16 Dec 2023
Machine Hours	3232	2973	0	2526
Oil Hours	0	238	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	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	12.1	11.9	11.4	12.3
Base Number (BN)	mg KOH/g	6.9	6.8	6.8	7.2
Oxidation (PA)	%	36	37	33	38

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)	%	53	50	48	52
Sulfation (PA)	%	44	43	42	45
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.3
Silicon	ppm	9	6	8	10
Sodium	ppm	2	<1	1	0
Potassium	ppm	3	2	5	4



WEAR METALS

Iron	ppm	6	4	5	6
Copper	ppm	1	1	<1	<1
Lead	ppm	<1	0	1	0
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	5	4	5	9
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	31	38	24	35
Nickel	ppm	<1	0	2	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	1	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1900	1870	1751	1986
Magnesium	ppm	166	167	111	138
Zinc	ppm	960	949	942	976
Phosphorus	ppm	826	813	830	756
Barium	ppm	0	0	0	0
Boron	ppm	37	42	19	18

Depot: CITMILCON
Unique No: 11050423
Signed: Sean Felton
Report Date: 30 May 2024



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GRAPHS

