



CONSTRUCTION EQUIPMENT

VOLVO EC350EL 314575 - DIESEL ENGINE



Sample No: VCP452638
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP452638	VCP436477	VCP439474	VCP431327
Sample Date	21 Jun 2024	30 Apr 2024	10 Jan 2024	18 Nov 2023
Machine Hours	0	0	1057	822
Oil Hours	0	0	235	236
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

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	10.6	10.8	11.0	11.9
Base Number (BN)	mg KOH/g	6.1	8.2	6.5	6.6
Oxidation (PA)	%	34	55	36	41

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	0.1
Nitration (PA)	%	51	50	50	54
Sulfation (PA)	%	43	52	44	46
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	11
Sodium	ppm	<1	0	<1	2
Potassium	ppm	2	2	0	2



WEAR METALS

Iron	ppm	3	4	4	5
Copper	ppm	11	11	27	86
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	<1	1
Chromium	ppm	0	<1	0	0
Molybdenum	ppm	50	25	45	29
Nickel	ppm	0	<1	0	<1
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	1946	1921	2069	2038
Magnesium	ppm	197	157	139	135
Zinc	ppm	1021	957	995	990
Phosphorus	ppm	876	854	867	894
Barium	ppm	0	0	0	0
Boron	ppm	29	25	27	15

Depot: CITMILCON
Unique No: 11123241
Signed: Don Baldrige
Report Date: 14 Jul 2024



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VOLVO GRAPHS

