



CONSTRUCTION EQUIPMENT

VOLVO EC350EL 314575 - DIESEL ENGINE



Sample No: VCP436477
Oil Type: VALVOLINE 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP436477	VCP439474	VCP431327	VCP424485
Sample Date	30 Apr 2024	10 Jan 2024	18 Nov 2023	30 Sep 2023
Machine Hours	0	1057	822	586
Oil Hours	0	235	236	586
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	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	10.8	11.0	11.9	10.3
Base Number (BN)	mg KOH/g	8.2	6.5	6.6	5.9
Oxidation (PA)	%	55	36	41	73

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	0.1	0.1
Nitration (PA)	%	50	50	54	65
Sulfation (PA)	%	52	44	46	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	1.2
Silicon	ppm	5	5	11	30
Sodium	ppm	0	<1	2	4
Potassium	ppm	2	0	2	3



WEAR METALS

Iron	ppm	4	4	5	13
Copper	ppm	11	27	86	289
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	2	<1	1	2
Chromium	ppm	<1	0	0	0
Molybdenum	ppm	25	45	29	62
Nickel	ppm	<1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	4
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1921	2069	2038	1803
Magnesium	ppm	157	139	135	412
Zinc	ppm	957	995	990	1300
Phosphorus	ppm	854	867	894	1051
Barium	ppm	0	0	0	0
Boron	ppm	25	27	15	51

Depot: CITMILCON
Unique No: 11015860
Signed: Don Baldrige
Report Date: 08 May 2024



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GRAPHS

