



CONSTRUCTION EQUIPMENT

X47601 VOLVO EC350 314390 - DIESEL ENGINE



Sample No: VCP432826
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: X47601



SAMPLE INFORMATION

Sample Number	VCP432826	VCP407867	VCP378839	VCP391017
Sample Date	13 Sep 2023	12 Jun 2023	06 Feb 2023	03 Nov 2022
Machine Hours	2122	1808	1154	737
Oil Hours	0	0	0	0
Oil Changed	N/A	N/A	N/A	N/A
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	ABNORMAL

SCOTT EQUIPMENT COMPANY LLC - Lake Charles
 PO BOX 16955
 LAKE CHARLES, LA
 US 70616
 Contact: TINA LEDOUX
 tledoux@scottcompanies.com
 T: (337)433-9811
 F: (318)433-6623



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.3	▲ 12.1	10.0
Base Number (BN)	mg KOH/g	■ 9.2	■ 7.6	■ 8.1	■ 5.8
Oxidation (PA)	%	82	93	81	76



CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	61	78	76	93
Sulfation (PA)	%	61	65	63	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	■ 1.1
Silicon	ppm	■ 7	■ 5	■ 7	■ 25
Sodium	ppm	■ 2	■ 3	■ 2	■ 3
Potassium	ppm	■ 2	■ <1	■ <1	■ 3



WEAR METALS

Iron	ppm	■ 7	■ 6	■ 6	■ 14
Copper	ppm	▲ 23	▲ 27	▲ 109	▲ 258
Lead	ppm	■ <1	■ 0	■ 2	■ 4
Tin	ppm	■ <1	■ 0	■ 2	■ 3
Aluminum	ppm	■ <1	■ 0	■ <1	■ 3
Chromium	ppm	■ 0	■ 0	■ <1	■ <1
Molybdenum	ppm	■ 43	■ 43	■ 51	■ 86
Nickel	ppm	■ 0	■ 0	■ <1	■ <1
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	0
Manganese	ppm	■ <1	■ 0	■ 1	3
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	■ 1881	■ 1794	■ 1670	■ 2085
Magnesium	ppm	■ 539	■ 519	■ 439	■ 40
Zinc	ppm	■ 1180	■ 1168	■ 1084	■ 1183
Phosphorus	ppm	■ 959	■ 919	■ 867	■ 918
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 31	■ 14	■ 24	■ 28

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. The copper level has decreased, but is still abnormal. All other 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: VOLVO6244
Unique No: 10658573
Signed: Don Baldrige
Report Date: 22 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

