



CONSTRUCTION EQUIPMENT

567628 BCSW VOLVO A40G 352381 - DIESEL ENGINE



Sample No: VCP415632
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 567628 BCSW



SAMPLE INFORMATION

Sample Number	VCP415632	VCP399702	VCP369961	VCP376923
Sample Date	23 Jun 2023	02 Mar 2023	16 Nov 2022	15 Sep 2022
Machine Hours	6252	5782	5263	4951
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

ALTA EQUIPMENT/FLAGLER EQUIPMENT LLC
 9601 BOGGY CREEK RD
 ORLANDO, FL
 US 32824
 Contact: Robert LaPlante
 robert.laplante@altg.com
 T: (407)508-9736
 F: (407)659-8720



OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.3	■ 12.7	■ 13.0
Base Number (BN)	mg KOH/g	■ 9.6	■ 9.0	■ 11.4	■ 10.3
Oxidation (PA)	%	80	66	42	90



CONTAMINATION

Soot %	%	■ 0.2	■ 0.2	■ 0.1	■ 0.2
Nitration (PA)	%	66	68	173	77
Sulfation (PA)	%	60	55	40	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	■ 1.3	<1.0	<1.0
Silicon	ppm	■ 6	■ 5	■ 4	■ 4
Sodium	ppm	■ 4	■ 2	■ <1	■ 3
Potassium	ppm	■ 2	■ 0	■ 1	■ 1



WEAR METALS

Iron	ppm	■ 5	■ 5	■ 4	■ 6
Copper	ppm	■ 2	■ 3	■ <1	■ 2
Lead	ppm	■ 1	■ <1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ 1
Aluminum	ppm	■ 0	■ <1	■ 1	■ 2
Chromium	ppm	■ <1	■ <1	■ 0	■ <1
Molybdenum	ppm	■ 47	■ 48	■ 44	■ 42
Nickel	ppm	■ 3	■ <1	■ 0	■ 0
Titanium	ppm	<1	<1	0	0
Silver	ppm	■ 0	■ <1	■ 0	■ 0
Manganese	ppm	■ <1	■ 1	■ <1	■ <1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	■ 1631	■ 1192	■ 1715	■ 1672
Magnesium	ppm	■ 582	■ 785	■ 501	■ 489
Zinc	ppm	■ 1146	■ 1090	■ 1108	■ 1092
Phosphorus	ppm	■ 941	■ 902	■ 936	■ 915
Barium	ppm	■ <1	■ 0	■ 0	■ 0
Boron	ppm	■ 35	■ 8	■ 43	■ 27

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.

Depot: VOLVO0096
Unique No: 10535827
Signed: Don Baldrige
Report Date: 30 Jun 2023



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GRAPHS

