



CONSTRUCTION EQUIPMENT

VOLVO A25G 752381 - DIESEL ENGINE



Sample No: VCP441106
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP441106	VCP397784	VCP386572	VCP375621
Sample Date	02 Nov 2023	11 May 2023	09 Jan 2023	27 Sep 2022
Machine Hours	2583	2012	1462	1034
Oil Hours	571	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 12.4	▲ 12.1	▲ 12.4	▲ 12.0
Base Number (BN)	mg KOH/g	■ 8.1	■ 8.5	■ 8.8	■ 8.5
Oxidation (PA)	%	67	69	67	77

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. 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 %	%	■ 0.2	■ 0.2	■ 0.2	■ 0.3
Nitration (PA)	%	65	64	61	73
Sulfation (PA)	%	63	64	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 6	■ 6	■ 6	■ 11
Sodium	ppm	■ 1	■ 2	■ 1	■ 2
Potassium	ppm	■ <1	■ 1	■ 0	■ <1



WEAR METALS

Iron	ppm	■ 9	■ 9	■ 10	■ 13
Copper	ppm	■ 3	■ 6	■ 27	▲ 166
Lead	ppm	■ 1	■ 1	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ 2
Aluminum	ppm	■ 3	■ 3	■ 2	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ <1
Molybdenum	ppm	■ 116	■ 112	■ 104	■ 55
Nickel	ppm	■ 2	■ 2	■ 2	■ 0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	■ <1	■ <1	■ 1
Manganese	ppm	■ <1	■ <1	■ <1	■ 1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	■ 1566	■ 1513	■ 1511	■ 1606
Magnesium	ppm	■ 638	■ 656	■ 631	■ 505
Zinc	ppm	■ 856	■ 896	■ 892	■ 1097
Phosphorus	ppm	■ 656	■ 772	■ 732	■ 911
Barium	ppm	■ 0	■ 0	■ 0	■ 0
Boron	ppm	■ 234	■ 248	■ 253	■ 25

Depot: VOLVO8881
Unique No: 10753832
Signed: Don Baldrige
Report Date: 24 Nov 2023



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GRAPHS

