



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO A25G 752489 - DIESEL ENGINE



Sample No: VCP432184
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



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SAMPLE INFORMATION

Sample Number	VCP432184	VCP408285	VCP392945	VCP400032
Sample Date	14 Nov 2023	08 Jun 2023	07 Mar 2023	07 Mar 2023
Machine Hours	2088	1604	1053	1053
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ATTENTION	NORMAL	ABNORMAL	ABNORMAL

OIL CONDITION

Visc @ 100°C	cSt	▲ 8.5	■ 12.4	▲ 20.4	▲ 11.8
Base Number (BN)	mg KOH/g	■ 8.7	■ 9.7	■ 5.1	■ 8.6
Oxidation (PA)	%	■ 63	■ 82	■ 25	■ 78

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.3	■ 0.1	■ 0.3
Nitration (PA)	%	■ 58	■ 68	■ 33	■ 68
Sulfation (PA)	%	■ 52	■ 63	■ 60	■ 63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 1.2	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 3	■ 4	■ 8
Sodium	ppm	■ 4	■ 2	■ 0	■ 2
Potassium	ppm	■ 33	■ 1	■ 1	■ 0

WEAR METALS

Iron	ppm	■ 49	■ 4	■ 97	■ 11
Copper	ppm	■ 2	■ 12	■ 9	▲ 81
Lead	ppm	■ 0	■ <1	■ 0	■ <1
Tin	ppm	■ <1	■ 0	■ <1	■ 1
Aluminum	ppm	■ 14	■ 6	■ <1	■ 1
Chromium	ppm	■ <1	■ 0	■ 2	■ <1
Molybdenum	ppm	■ 70	■ 54	■ 6	■ 47
Nickel	ppm	■ 0	■ 0	■ 1	■ 2
Titanium	ppm	0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ <1
Manganese	ppm	■ <1	■ 0	■ 3	■ 2
Vanadium	ppm	0	0	0	<1

ADDITIVES

Calcium	ppm	■ 1153	■ 2008	▲ 332	■ 1574
Magnesium	ppm	■ 805	■ 602	■ 14	■ 414
Zinc	ppm	■ 1094	■ 1288	▲ 165	■ 1040
Phosphorus	ppm	■ 870	■ 1089	▲ 1154	■ 828
Barium	ppm	■ 0	■ 12	■ 0	■ 0
Boron	ppm	■ 16	■ 28	▲ 166	■ 24

Diagnosis

No corrective action is recommended at this time. We recommend an early resample to monitor this condition. All component wear rates are normal. Fuel content negligible. 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: VOLVO0093
Unique No: 10777233
Signed: Jonathan Hester
Report Date: 14 Dec 2023



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GRAPHS

