



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO EC380 314346 - DIESEL ENGINE



Sample No: VCP436223
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP436223	VCP396708	VCP402513	VCP376926
Sample Date	31 Oct 2023	14 Jun 2023	22 Feb 2023	10 Aug 2022
Machine Hours	2009	2770	2268	1687
Oil Hours	0	500	500	0
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	ATTENTION	SEVERE	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 11.6	9.5	12.3	12.5
Base Number (BN)	mg KOH/g	■ 9.0	8.6	10.0	10.6
Oxidation (PA)	%	83	78	83	91

CONTAMINATION

Soot %	%	■ 0.1	0.1	0.1	0.1
Nitration (PA)	%	70	74	73	73
Sulfation (PA)	%	60	58	61	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 1.5	11.2	<1.0	<1.0
Silicon	ppm	■ 5	2	4	5
Sodium	ppm	■ 2	2	0	3
Potassium	ppm	■ 2	1	1	0

WEAR METALS

Iron	ppm	■ 6	0	5	7
Copper	ppm	■ 1	1	3	9
Lead	ppm	■ <1	<1	<1	<1
Tin	ppm	■ <1	0	<1	1
Aluminum	ppm	■ 2	6	2	2
Chromium	ppm	■ <1	0	0	0
Molybdenum	ppm	■ 47	51	43	42
Nickel	ppm	■ <1	0	<1	0
Titanium	ppm	<1	0	0	0
Silver	ppm	■ 0	0	0	<1
Manganese	ppm	■ <1	0	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 1658	1809	1649	1693
Magnesium	ppm	■ 517	540	494	495
Zinc	ppm	■ 1173	1186	1088	1076
Phosphorus	ppm	■ 964	1001	882	883
Barium	ppm	■ <1	12	2	0
Boron	ppm	■ 23	20	27	37

Diagnosis

No corrective action is recommended at this time. Resample at the next service interval to monitor. 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: 10723719
Signed: Jonathan Hester
Report Date: 03 Nov 2023



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GRAPHS

