



CONSTRUCTION EQUIPMENT

593719 TUCKER PAVING VOLVO EC380E 314427 - DIESEL ENGINE



Sample No: VCP425141
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 593719 TUCKER PAVING



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SAMPLE INFORMATION

Sample Number	VCP425141	VCP410342	VCP353535	VCP359342
Sample Date	09 Aug 2023	13 Mar 2023	04 Aug 2022	25 Apr 2022
Machine Hours	4011	3403	2895	0
Oil Hours	500	500	1500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	▲ 11.8	▲ 12.0	▲ 12.1
Base Number (BN)	mg KOH/g	■ 8.7	■ 9.6	■ 10.0	■ 11.4
Oxidation (PA)	%	79	75	90	85

CONTAMINATION

Soot %	%	■ 0.1	■ 0.1	■ 0.1	■ 0.1
Nitration (PA)	%	65	64	77	60
Sulfation (PA)	%	58	58	64	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	■ 5	■ 4	■ 4	■ 5
Sodium	ppm	■ 3	■ 2	■ 0	■ 3
Potassium	ppm	■ 0	■ <1	■ 2	■ 0

WEAR METALS

Iron	ppm	■ 4	■ 4	■ 5	■ 5
Copper	ppm	■ 2	■ 7	■ 2	■ 2
Lead	ppm	■ 0	■ 0	■ 2	■ <1
Tin	ppm	■ <1	■ <1	■ 2	■ 2
Aluminum	ppm	■ <1	■ 1	■ 2	■ 1
Chromium	ppm	■ 0	■ <1	■ 0	■ 0
Molybdenum	ppm	■ 46	■ 48	■ 46	■ 40
Nickel	ppm	■ 0	■ 0	■ 0	■ <1
Titanium	ppm	0	0	0	<1
Silver	ppm	■ 0	■ 0	0	0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	■ 1784	■ 1653	■ 1719	■ 1790
Magnesium	ppm	■ 534	■ 687	■ 470	■ 509
Zinc	ppm	■ 1132	■ 1217	■ 1114	■ 1068
Phosphorus	ppm	■ 934	■ 999	■ 930	■ 965
Barium	ppm	■ 0	■ 0	■ 2	■ 0
Boron	ppm	■ 30	■ 24	■ 27	■ 49

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: VOLVO0093
Unique No: 10619896
Signed: Jonathan Hester
Report Date: 28 Aug 2023



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VOLVO GRAPHS

