



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO EC380E 314427 - DIESEL ENGINE



Sample No: VCP450938
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP450938	VCP432181	VCP425141	VCP410342
Sample Date	18 May 2024	07 Feb 2024	09 Aug 2023	13 Mar 2023
Machine Hours	5148	4527	4011	3403
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	11.8	11.8	11.7	11.8
Base Number (BN)	mg KOH/g	9.6	9.5	8.7	9.6
Oxidation (PA)	%	81	77	79	75



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	65	63	65	64
Sulfation (PA)	%	60	58	58	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	6	5	4
Sodium	ppm	3	2	3	2
Potassium	ppm	3	1	0	<1



WEAR METALS

Iron	ppm	3	5	4	4
Copper	ppm	<1	6	2	7
Lead	ppm	1	<1	0	0
Tin	ppm	<1	1	<1	<1
Aluminum	ppm	2	2	<1	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	43	46	48
Nickel	ppm	<1	1	0	0
Titanium	ppm	0	<1	0	0
Silver	ppm	<1	0	0	0
Manganese	ppm	<1	1	<1	<1
Vanadium	ppm	<1	<1	<1	0



ADDITIVES

Calcium	ppm	1692	1447	1784	1653
Magnesium	ppm	548	428	534	687
Zinc	ppm	1148	980	1132	1217
Phosphorus	ppm	996	840	934	999
Barium	ppm	0	1	0	0
Boron	ppm	41	31	30	24

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: 11050438
Signed: Sean Felton
Report Date: 30 May 2024



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GRAPHS

