



CONSTRUCTION EQUIPMENT

673173 TUCKER PAVING VOLVO EC380E 314427 - DIESEL ENGINE



Sample No: VCP432181
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 673173 TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP432181	VCP425141	VCP410342	VCP353535
Sample Date	07 Feb 2024	09 Aug 2023	13 Mar 2023	04 Aug 2022
Machine Hours	4527	4011	3403	2895
Oil Hours	500	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ATTENTION	ATTENTION

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OIL CONDITION

Visc @ 100°C	cSt	11.8	11.7	11.8	12.0
Base Number (BN)	mg KOH/g	9.5	8.7	9.6	10.0
Oxidation (PA)	%	77	79	75	90

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.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	63	65	64	77
Sulfation (PA)	%	58	58	58	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	4	4
Sodium	ppm	2	3	2	0
Potassium	ppm	1	0	<1	2



WEAR METALS

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



ADDITIVES

Calcium	ppm	1447	1784	1653	1719
Magnesium	ppm	428	534	687	470
Zinc	ppm	980	1132	1217	1114
Phosphorus	ppm	840	934	999	930
Barium	ppm	1	0	0	2
Boron	ppm	31	30	24	27

Depot: VOLVO0093
Unique No: 10900908
Signed: Don Baldrige
Report Date: 29 Feb 2024



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VOLVO GRAPHS

