



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO A25G 740257 - DIESEL ENGINE



Sample No: VCP438571
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP438571	VCP444872	VCP440032	VCP424467
Sample Date	08 Jul 2024	26 Apr 2024	08 Jan 2024	24 May 2023
Machine Hours	10131	9675	9175	8655
Oil Hours	0	0	500	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	ABNORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.2	12.1	12.0
Base Number (BN)	mg KOH/g	9.0	9.2	8.7	9.4
Oxidation (PA)	%	79	75	80	84



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.3	0.2	0.2	0.2
Nitration (PA)	%	63	64	68	63
Sulfation (PA)	%	60	57	59	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	4
Sodium	ppm	2	4	2	0
Potassium	ppm	1	0	0	<1



WEAR METALS

Iron	ppm	5	5	5	4
Copper	ppm	0	<1	0	<1
Lead	ppm	0	0	<1	<1
Tin	ppm	<1	0	<1	<1
Aluminum	ppm	2	2	2	<1
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	48	46	45	77
Nickel	ppm	0	0	0	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1591	1600	1678	1575
Magnesium	ppm	523	582	533	482
Zinc	ppm	1151	1096	1157	1073
Phosphorus	ppm	972	955	959	890
Barium	ppm	0	0	0	2
Boron	ppm	29	14	26	46

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: 11123252
Signed: Don Baldrige
Report Date: 14 Jul 2024



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GRAPHS

