



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO A25G 742097 - DIESEL ENGINE



Sample No: VCP445548
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP445548	VCP341490	VCP386628	VCP385967
Sample Date	10 Apr 2024	24 Jan 2023	12 Oct 2022	12 Oct 2022
Machine Hours	7317	6604	6141	6141
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ATTENTION	ATTENTION	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.1	13.3	12.4
Base Number (BN)	mg KOH/g	7.4	9.0	10.9	10.7
Oxidation (PA)	%	72	72	69	82

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.6	0.4	0.3	0.4
Nitration (PA)	%	74	60	73	70
Sulfation (PA)	%	60	58	59	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	1.2	<1.0	<1.0
Silicon	ppm	9	3	4	3
Sodium	ppm	0	2	<1	2
Potassium	ppm	1	0	1	0

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.

WEAR METALS

Iron	ppm	16	7	10	7
Copper	ppm	6	<1	1	<1
Lead	ppm	<1	<1	<1	<1
Tin	ppm	1	<1	<1	<1
Aluminum	ppm	5	<1	9	1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	51	49	60	44
Nickel	ppm	0	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1557	1639	1193	1559
Magnesium	ppm	424	504	893	632
Zinc	ppm	1068	1124	1270	1170
Phosphorus	ppm	812	932	1055	909
Barium	ppm	0	0	0	0
Boron	ppm	6	24	3	21

Depot: VOLVO0093
Unique No: 11077110
Signed: Don Baldrige
Report Date: 17 Jun 2024



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VOLVO GRAPHS

