



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO A25G 752489 - DIESEL ENGINE



Sample No: VCP437849
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No:



SAMPLE INFORMATION

Sample Number	VCP437849	VCP432184	VCP408285	VCP392945
Sample Date	16 Feb 2024	14 Nov 2023	08 Jun 2023	07 Mar 2023
Machine Hours	2656	2088	1604	1053
Oil Hours	0	0	500	500
Oil Changed	Changed	N/A	Changed	Changed
Sample Status	SEVERE	ATTENTION	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	▲ 7.3	● 8.5	■ 12.4	▲ 20.4
Base Number (BN)	mg KOH/g	■ 7.6	■ 8.7	■ 9.7	■ 5.1
Oxidation (PA)	%	60	63	82	25



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	■ 0.2	■ 0.2	■ 0.3	■ 0.1
Nitration (PA)	%	60	58	68	33
Sulfation (PA)	%	51	52	63	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	▲ 22.8	■ 1.2	<1.0	<1.0
Silicon	ppm	■ 3	■ 5	■ 3	■ 4
Sodium	ppm	■ 1	■ 4	■ 2	■ 0
Potassium	ppm	■ <1	■ 33	■ 1	■ 1



WEAR METALS

Iron	ppm	■ 4	■ 49	■ 4	■ 97
Copper	ppm	■ 2	■ 2	■ 12	■ 9
Lead	ppm	■ <1	■ 0	■ <1	■ 0
Tin	ppm	■ <1	■ <1	■ 0	■ <1
Aluminum	ppm	■ 2	■ 14	■ 6	■ <1
Chromium	ppm	■ 0	■ <1	■ 0	■ 2
Molybdenum	ppm	■ 32	■ 70	■ 54	■ 6
Nickel	ppm	■ 1	■ 0	■ 0	■ 1
Titanium	ppm	■ 0	0	0	0
Silver	ppm	■ 0	■ 0	■ 0	■ 0
Manganese	ppm	■ <1	■ <1	■ 0	■ 3
Vanadium	ppm	■ 0	0	0	0



ADDITIVES

Calcium	ppm	■ 1224	■ 1153	■ 2008	● 332
Magnesium	ppm	■ 440	■ 805	■ 602	■ 14
Zinc	ppm	■ 877	■ 1094	■ 1288	● 165
Phosphorus	ppm	■ 759	■ 870	■ 1089	● 1154
Barium	ppm	■ 0	■ 0	■ 12	■ 0
Boron	ppm	■ 22	■ 16	■ 28	● 166

Diagnosis

We advise that you check the fuel injection system. The oil change at the time of sampling has been noted. We recommend an early resample to monitor this condition. All component wear rates are normal. There is a high amount of fuel present in the oil. Tests confirm the presence of fuel in the oil. The BN result indicates that there is suitable alkalinity remaining in the oil. Fuel is present in the oil and is lowering the viscosity. The oil is no longer serviceable due to the presence of contaminants.

Depot: VOLVO0093
Unique No: 11018422
Signed: Jon Fazenbaker
Report Date: 15 May 2024



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GRAPHS

