



CONSTRUCTION EQUIPMENT

579943 TUCKER PAVING VOLVO A25G 742081 - DIESEL ENGINE



Sample No: VCP425811
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 579943 TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP425811	VCP393784	VCP386619	VCP376255
Sample Date	14 Jul 2023	13 Mar 2023	24 Oct 2022	02 Aug 2022
Machine Hours	7964	7506	7007	6588
Oil Hours	500	500	500	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ATTENTION	ATTENTION

ALTA EQUIPMENT/FLAGLER CONSTRUCTION EQUIPMENT LLC
 8418 PALM RIVER ROAD
 TAMPA, FL
 US 33619
 Contact: JOHN FARDELLA
 JFARDELLA@ALTAEQUIPFL.COM
 T: (813)630-0077
 F: (813)630-2233



OIL CONDITION

Visc @ 100°C	cSt	▲ 11.7	▲ 11.3	▲ 12.1	▲ 11.8
Base Number (BN)	mg KOH/g	■ 8.9	■ 8.8	■ 10.3	■ 10.1
Oxidation (PA)	%	76	79	82	80

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. Fuel content negligible. 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	%	---	---	■ 0.114	---
Soot %	%	■ 0.3	■ 0.3	■ 0.3	■ 0.3
Nitration (PA)	%	67	67	78	67
Sulfation (PA)	%	59	61	63	62
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	■ 2.7	▲ 4.3	<1.0	<1.0
Silicon	ppm	■ 5	■ 5	■ 4	■ 3
Sodium	ppm	■ 2	■ 2	■ <1	■ 0
Potassium	ppm	■ 0	■ 0	■ 2	■ 1



WEAR METALS

Iron	ppm	■ 7	■ 8	■ 6	■ 4
Copper	ppm	■ 2	■ <1	■ 8	■ <1
Lead	ppm	■ 0	■ 0	■ <1	■ <1
Tin	ppm	■ <1	■ <1	■ <1	■ <1
Aluminum	ppm	■ 2	■ 2	■ 2	■ 1
Chromium	ppm	■ <1	■ <1	■ <1	■ 0
Molybdenum	ppm	■ 48	■ 44	■ 47	■ 45
Nickel	ppm	■ 0	■ 0	■ 0	■ 0
Titanium	ppm	0	<1	<1	0
Silver	ppm	■ 0	■ 0	■ 2	■ 0
Manganese	ppm	■ <1	■ <1	■ <1	■ <1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	■ 1788	■ 1656	■ 1529	■ 1559
Magnesium	ppm	■ 510	■ 542	■ 590	■ 438
Zinc	ppm	■ 1200	■ 1146	■ 1125	■ 1065
Phosphorus	ppm	■ 993	■ 935	■ 923	■ 889
Barium	ppm	■ <1	■ 0	■ 0	■ 2
Boron	ppm	■ 25	■ 31	■ 19	■ 29

Depot: VOLVO0093
Unique No: 10566554
Signed: Don Baldrige
Report Date: 26 Jul 2023



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VOLVO GRAPHS

