



CONSTRUCTION EQUIPMENT

621714 TUCKER PAVING VOLVO A25G 752447 - DIESEL ENGINE



Sample No: VCP430498
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: 621714 TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP430498	VCP418276	VCP383057	VCP386352
Sample Date	31 Oct 2023	08 Jun 2023	23 Feb 2023	24 Oct 2022
Machine Hours	2238	1688	1077	504
Oil Hours	500	500	1000	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	ATTENTION	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.1	12.6	12.1	10.7
Base Number (BN)	mg KOH/g	9.2	8.9	8.2	6.7
Oxidation (PA)	%	81	84	81	64

Diagnosis

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 BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.



CONTAMINATION

Water	%	NEG	NEG	NEG	0.105
Soot %	%	0.5	0.5	0.3	0.4
Nitration (PA)	%	73	79	72	97
Sulfation (PA)	%	61	65	64	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	4	4	6	33
Sodium	ppm	2	2	<1	3
Potassium	ppm	<1	0	2	0



WEAR METALS

Iron	ppm	12	20	35	36
Copper	ppm	7	26	176	407
Lead	ppm	0	0	<1	14
Tin	ppm	1	1	2	3
Aluminum	ppm	1	1	2	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	41	43	52	79
Nickel	ppm	3	3	7	4
Titanium	ppm	0	0	<1	<1
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	2	4
Vanadium	ppm	0	<1	<1	0



ADDITIVES

Calcium	ppm	1536	1601	1758	2080
Magnesium	ppm	479	472	428	15
Zinc	ppm	1063	1043	1146	1105
Phosphorus	ppm	877	854	932	982
Barium	ppm	0	0	2	8
Boron	ppm	19	15	22	22

Depot: VOLVO0093
Unique No: 10764754
Signed: Jonathan Hester
Report Date: 30 Nov 2023



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GRAPHS

