



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO A25G 752447 - DIESEL ENGINE



Sample No: VCP418276
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

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

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.1	10.7	---
Base Number (BN)	mg KOH/g	8.9	8.2	6.7	---
Oxidation (PA)	%	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	%	---	---	0.105	---
Soot %	%	0.5	0.3	0.4	---
Nitration (PA)	%	79	72	97	---
Sulfation (PA)	%	65	64	59	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	<1.0	<1.0	0.4	---
Silicon	ppm	4	6	33	---
Sodium	ppm	2	<1	3	---
Potassium	ppm	0	2	0	---



WEAR METALS

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



ADDITIVES

Calcium	ppm	1601	1758	2080	---
Magnesium	ppm	472	428	15	---
Zinc	ppm	1043	1146	1105	---
Phosphorus	ppm	854	932	982	---
Barium	ppm	0	2	8	---
Boron	ppm	15	22	22	---

Depot: VOLVO0093
Unique No: 10551674
Signed: Don Baldrige
Report Date: 13 Jul 2023



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GRAPHS

