



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO L110H 631215 - DIESEL ENGINE



Sample No: VCP428657
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP428657	VCP433373	VCP393514	VCP390679
Sample Date	21 Feb 2024	03 Nov 2023	07 Mar 2023	20 Sep 2022
Machine Hours	13022	12508	11469	10681
Oil Hours	0	500	500	500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	12.9	13.6
Base Number (BN)	mg KOH/g	10.0	10.0	10.0	11.6
Oxidation (PA)	%	75	79	87	90

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	NEG
Soot %	%	0.2	0.3	0.3	0.4
Nitration (PA)	%	63	68	78	78
Sulfation (PA)	%	56	58	61	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	6	7
Sodium	ppm	2	2	2	3
Potassium	ppm	<1	<1	0	1



WEAR METALS

Iron	ppm	6	7	12	8
Copper	ppm	3	<1	1	1
Lead	ppm	0	0	0	<1
Tin	ppm	<1	<1	<1	1
Aluminum	ppm	4	4	5	6
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	47	44	42	39
Nickel	ppm	0	0	0	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	1	1
Vanadium	ppm	0	0	<1	1



ADDITIVES

Calcium	ppm	1662	1576	1617	1681
Magnesium	ppm	601	488	503	495
Zinc	ppm	1174	1112	1058	1129
Phosphorus	ppm	1031	913	878	937
Barium	ppm	0	0	0	0
Boron	ppm	30	22	23	16

Depot: VOLVO0093
Unique No: 11018400
Signed: Wes Davis
Report Date: 09 May 2024



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GRAPHS

