



CONSTRUCTION EQUIPMENT

TUCKER PAVING VOLVO EC380 314346 - DIESEL ENGINE



Sample No: VCP396708
Oil Type: VOLVO ULTRA DIESEL ENGINE OIL 15W40 VDS-3
Job No: TUCKER PAVING



SAMPLE INFORMATION

Sample Number	VCP396708	VCP402513	VCP376926	VCP344358
Sample Date	14 Jun 2023	22 Feb 2023	10 Aug 2022	12 Nov 2021
Machine Hours	2770	2268	1687	590
Oil Hours	500	500	0	1500
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	SEVERE	NORMAL	NORMAL	ABNORMAL

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OIL CONDITION

Visc @ 100°C	cSt	9.5	12.3	12.5	12.2
Base Number (BN)	mg KOH/g	8.6	10.0	10.6	---
Oxidation (PA)	%	78	83	91	59

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	74	73	73	60
Sulfation (PA)	%	58	61	67	57
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	11.2	<1.0	<1.0	0.4
Silicon	ppm	2	4	5	19
Sodium	ppm	2	0	3	4
Potassium	ppm	1	1	0	5

WEAR METALS

Iron	ppm	0	5	7	13
Copper	ppm	1	3	9	396
Lead	ppm	<1	<1	<1	1
Tin	ppm	0	<1	1	2
Aluminum	ppm	6	2	2	1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	51	43	42	12
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	<1	<1
Manganese	ppm	0	<1	<1	2
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1809	1649	1693	2137
Magnesium	ppm	540	494	495	90
Zinc	ppm	1186	1088	1076	1034
Phosphorus	ppm	1001	882	883	910
Barium	ppm	12	2	0	0
Boron	ppm	20	27	37	9

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: 10551650
Signed: Wes Davis
Report Date: 13 Jul 2023



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GRAPHS

