



CONSTRUCTION EQUIPMENT

X10692 VOLVO EC300DL 210381 - DIESEL ENGINE



Sample No: VCP413418

Oil Type: NOT GIVEN

Job No: X10692



SAMPLE INFORMATION

Sample Number	VCP413418	VCP423444	---	---
Sample Date	21 Nov 2023	26 May 2023	---	---
Machine Hours	6419	6326	---	---
Oil Hours	0	0	---	---
Oil Changed	N/A	Not Changd	---	---
Sample Status	NORMAL	ABNORMAL	---	---

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OIL CONDITION

Visc @ 100°C	cSt	14.3	15.4	---	---
Base Number (BN)	mg KOH/g	12.7	10.4	---	---
Oxidation (PA)	%	79	89	---	---

Diagnosis

Resample at the next service interval to monitor. All component wear rates are normal. No evidence of fuel or coolant present in the oil. 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	---	---
Soot %	%	2.4	3.3	---	---
Nitration (PA)	%	69	105	---	---
Sulfation (PA)	%	73	83	---	---
Glycol	%	NEG	NEG	---	---
Fuel	%	<1.0	<1.0	---	---
Silicon	ppm	10	10	---	---
Sodium	ppm	22	33	---	---
Potassium	ppm	11	12	---	---



WEAR METALS

Iron	ppm	33	45	---	---
Copper	ppm	2	4	---	---
Lead	ppm	0	1	---	---
Tin	ppm	<1	1	---	---
Aluminum	ppm	8	8	---	---
Chromium	ppm	1	1	---	---
Molybdenum	ppm	39	47	---	---
Nickel	ppm	<1	0	---	---
Titanium	ppm	0	<1	---	---
Silver	ppm	0	0	---	---
Manganese	ppm	<1	<1	---	---
Vanadium	ppm	0	0	---	---



ADDITIVES

Calcium	ppm	1620	1760	---	---
Magnesium	ppm	470	578	---	---
Zinc	ppm	1057	1186	---	---
Phosphorus	ppm	857	938	---	---
Barium	ppm	2	0	---	---
Boron	ppm	43	24	---	---

Depot: VOLVO1034
Unique No: 10767963
Signed: Jonathan Hester
Report Date: 05 Dec 2023



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GRAPHS

