



CONSTRUCTION EQUIPMENT

23-05 VOLVO A45G 342614 - DIESEL ENGINE



Sample No: VCP300845
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 23-05



SAMPLE INFORMATION

Sample Number	VCP300845	VCP141069	VCP150400	---
Sample Date	24 Oct 2023	23 Jul 2021	24 Jun 2020	---
Machine Hours	3751	2062	967	---
Oil Hours	596	528	531	---
Oil Changed	Changed	Changed	Changed	---
Sample Status	NORMAL	NORMAL	ABNORMAL	---

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.7	11.0	---
Base Number (BN)	mg KOH/g	6.2	---	---	---
Oxidation (PA)	%	46	47	94	---

Diagnosis

Resample at the next service interval to monitor. Please specify the brand, type, and viscosity of the oil on your next sample. All component wear rates are normal. Fuel content negligible. 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

Soot %	%	0.3	0.4	0.3	---
Nitration (PA)	%	69	69	79	---
Sulfation (PA)	%	53	57	67	---
Glycol	%	NEG	NEG	NEG	---
Fuel	%	0.6	<1.0	<1.0	---
Silicon	ppm	4	4	26	---
Sodium	ppm	0	<1	4	---
Potassium	ppm	2	<1	2	---



WEAR METALS

Iron	ppm	12	14	44	---
Copper	ppm	4	22	379	---
Lead	ppm	<1	<1	<1	---
Tin	ppm	<1	1	6	---
Aluminum	ppm	3	0	4	---
Chromium	ppm	<1	<1	2	---
Molybdenum	ppm	24	12	39	---
Nickel	ppm	<1	2	4	---
Titanium	ppm	<1	<1	0	---
Silver	ppm	0	<1	<1	---
Manganese	ppm	0	<1	2	---
Vanadium	ppm	<1	0	0	---



ADDITIVES

Calcium	ppm	1922	2311	1602	---
Magnesium	ppm	309	160	486	---
Zinc	ppm	1121	1060	994	---
Phosphorus	ppm	908	964	870	---
Barium	ppm	7	0	0	---
Boron	ppm	4	5	44	---

Depot: GLOPLE
Unique No: 10737807
Signed: Sean Felton
Report Date: 14 Nov 2023



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GRAPHS

