



CONSTRUCTION EQUIPMENT

23-05 VOLVO A45G 342634 - DIESEL ENGINE



Sample No: VCP149476
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 23-05



SAMPLE INFORMATION

Sample Number	VCP149476	VCP216303	VCP150388	VCP210968
Sample Date	18 Oct 2023	16 Jun 2022	15 Feb 2022	05 Aug 2020
Machine Hours	3010	1946	1517	505
Oil Hours	606	429	515	503
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.3	13.0	12.6	10.7
Base Number (BN)	mg KOH/g	7.1	7.0	7.2	---
Oxidation (PA)	%	52	41	47	88

CONTAMINATION

Soot %	%	0.4	0.3	0.4	0.2
Nitration (PA)	%	68	64	70	60
Sulfation (PA)	%	53	52	57	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.6	<1.0	<1.0	0.2
Silicon	ppm	4	4	5	24
Sodium	ppm	<1	1	2	4
Potassium	ppm	2	0	0	0

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.

WEAR METALS

Iron	ppm	16	11	16	27
Copper	ppm	6	27	93	189
Lead	ppm	<1	1	5	1
Tin	ppm	<1	1	1	0
Aluminum	ppm	3	2	2	2
Chromium	ppm	<1	<1	<1	1
Molybdenum	ppm	41	6	10	39
Nickel	ppm	2	1	<1	4
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	<1
Manganese	ppm	0	<1	<1	2
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1569	2244	2368	1674
Magnesium	ppm	565	81	148	481
Zinc	ppm	1155	994	1043	1039
Phosphorus	ppm	976	818	951	953
Barium	ppm	7	0	0	2
Boron	ppm	4	5	4	43

Depot: GLOPLE
Unique No: 10737806
Signed: Sean Felton
Report Date: 14 Nov 2023



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GRAPHS

