



CONSTRUCTION EQUIPMENT

19573 VOLVO A45G 353073 - DIESEL ENGINE



Sample No: VCP435307
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: 19573



SAMPLE INFORMATION

Sample Number	VCP435307	VCP421175	VCP390440	VCP390340
Sample Date	09 Sep 2023	19 Apr 2023	17 Nov 2022	14 Oct 2022
Machine Hours	5552	0	3571	3230
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	ABNORMAL	ABNORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.9	13.1	12.8	12.5
Base Number (BN)	mg KOH/g	7.7	7.6	11.1	8.2
Oxidation (PA)	%	56	60	84	62



CONTAMINATION

Soot %	%	0.6	0.5	0.5	0.8
Nitration (PA)	%	68	69	65	73
Sulfation (PA)	%	53	55	65	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	6	4
Sodium	ppm	79	209	12	5
Potassium	ppm	29	69	<1	0



WEAR METALS

Iron	ppm	12	11	10	15
Copper	ppm	6	12	6	12
Lead	ppm	<1	0	1	1
Tin	ppm	<1	<1	1	2
Aluminum	ppm	2	1	1	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	65	71	43	57
Nickel	ppm	5	2	7	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1060	1066	1587	1110
Magnesium	ppm	971	947	522	842
Zinc	ppm	1272	1226	843	1133
Phosphorus	ppm	1075	1019	707	916
Barium	ppm	0	0	0	0
Boron	ppm	6	7	30	12

Diagnosis

Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. Exhaust valve wear is indicated. Sodium and/or potassium levels remain elevated. Test for glycol is negative. The BN result indicates that there is suitable alkalinity remaining in the oil. The condition of the oil is suitable for further service.

Depot: VOLVO8769
Unique No: 10701665
Signed: Jonathan Hester
Report Date: 24 Oct 2023



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GRAPHS

