



CONSTRUCTION EQUIPMENT

VOLVO A45G 342540 - DIESEL ENGINE



Sample No: VCP0007584

Oil Type: NOT GIVEN

Job No:



SAMPLE INFORMATION

Sample Number	VCP0007584	VCP344362	VCP299459	VCP301583
Sample Date	06 Jul 2023	09 Nov 2021	10 May 2021	12 Feb 2021
Machine Hours	0	4094	3551	3069
Oil Hours	0	500	500	500
Oil Changed	N/A	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL



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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.9	12.7	12.7
Base Number (BN)	mg KOH/g	9.1	---	---	---
Oxidation (PA)	%	59	84	83	83

Diagnosis

Resample at the next service interval to monitor. The fluid was not specified, however, a fluid match indicates that this fluid is SAE 40 Diesel Engine Oil. Please confirm the oil type and grade, and specify the brand of the oil on your next sample. All component wear rates are normal. 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	%	---	---	0.102	---
Soot %	%	0.2	0.3	0.2	0.3
Nitration (PA)	%	58	67	67	66
Sulfation (PA)	%	53	63	65	64
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	5	4	5
Sodium	ppm	<1	2	3	0
Potassium	ppm	2	<1	<1	<1



WEAR METALS

Iron	ppm	6	8	6	9
Copper	ppm	1	2	2	8
Lead	ppm	1	<1	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	2	2	0	0
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	62	41	43	45
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1692	1695	1698	1864
Magnesium	ppm	542	510	516	493
Zinc	ppm	1328	1073	1095	1138
Phosphorus	ppm	1108	966	949	1048
Barium	ppm	0	0	0	0
Boron	ppm	1	34	57	35

Depot: QUALITFL
Unique No: 10548994
Signed: Wes Davis
Report Date: 11 Jul 2023



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GRAPHS

