



CONSTRUCTION EQUIPMENT

VOLVO A45G 342636 - DIESEL ENGINE



Sample No: VCP424895
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP424895	VCP143842	VCP216041	VCP216308
Sample Date	01 Jul 2024	17 Mar 2022	11 Aug 2021	11 Feb 2021
Machine Hours	3491	2600	2069	1494
Oil Hours	397	461	563	421
Oil Changed	Changed	Changed	N/A	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	12.9	12.5	12.5
Base Number (BN)	mg KOH/g	8.6	6.9	---	---
Oxidation (PA)	%	47	44	46	49

Diagnosis

Resample at the next service interval to monitor. 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	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.3	0.3	0.2
Nitration (PA)	%	56	68	68	66
Sulfation (PA)	%	49	57	56	53
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	3	2	5
Sodium	ppm	2	<1	1	2
Potassium	ppm	<1	0	<1	15



WEAR METALS

Iron	ppm	13	12	12	10
Copper	ppm	6	49	222	139
Lead	ppm	0	<1	1	<1
Tin	ppm	0	<1	1	0
Aluminum	ppm	1	2	1	1
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	41	7	10	28
Nickel	ppm	0	<1	<1	3
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1569	2229	2114	2012
Magnesium	ppm	612	105	123	478
Zinc	ppm	1142	970	1056	1120
Phosphorus	ppm	990	875	841	982
Barium	ppm	0	0	0	0
Boron	ppm	6	4	7	4

Depot: GLOPLE
Unique No: 11126342
Signed: Wes Davis
Report Date: 17 Jul 2024



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VOLVO GRAPHS

