



CONSTRUCTION EQUIPMENT

VOLVO A45G 352565 - DIESEL ENGINE



Sample No: VCP432351
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP432351	VCP431978	VCP414173	VCP413251
Sample Date	06 Dec 2023	03 Oct 2023	31 Jul 2023	31 May 2023
Machine Hours	8568	8080	7625	7148
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	12.9	12.8	12.7
Base Number (BN)	mg KOH/g	9.5	9.9	9.7	9.3
Oxidation (PA)	%	82	83	83	81

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.4	0.4	0.4	0.3
Nitration (PA)	%	69	64	66	67
Sulfation (PA)	%	63	63	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	6	4
Sodium	ppm	<1	2	2	2
Potassium	ppm	2	0	0	0



WEAR METALS

Iron	ppm	8	4	7	6
Copper	ppm	1	<1	<1	0
Lead	ppm	<1	0	<1	0
Tin	ppm	<1	0	<1	0
Aluminum	ppm	4	3	4	<1
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	42	40	43	48
Nickel	ppm	3	<1	<1	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1585	1764	1824	1768
Magnesium	ppm	510	554	539	531
Zinc	ppm	1075	1209	1205	1060
Phosphorus	ppm	855	994	981	836
Barium	ppm	11	0	0	0
Boron	ppm	38	36	42	36

Depot: SAIBIR
Unique No: 10782877
Signed: Don Baldrige
Report Date: 15 Dec 2023



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GRAPHS

