



CONSTRUCTION EQUIPMENT

VOLVO A45G 342096 - DIESEL ENGINE



Sample No: VCP431008
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP431008	VCP411741	VCP404606	VCP393682
Sample Date	13 Nov 2023	22 Aug 2023	08 May 2023	16 Dec 2022
Machine Hours	9583	9107	8608	8113
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	13.0	12.6	12.8	12.8
Base Number (BN)	mg KOH/g	9.5	9.5	10.3	11.2
Oxidation (PA)	%	70	75	82	86

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 %	%	0.2	0.2	0.2	0.3
Nitration (PA)	%	53	53	58	66
Sulfation (PA)	%	55	58	61	65
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	3	4	5	4
Sodium	ppm	2	3	0	0
Potassium	ppm	0	3	1	1



WEAR METALS

Iron	ppm	2	4	5	6
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	1	0	<1
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	<1	1	<1	0
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	46	40	43	39
Nickel	ppm	0	<1	<1	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	<1	0	0



ADDITIVES

Calcium	ppm	1428	1641	1706	1572
Magnesium	ppm	625	463	488	454
Zinc	ppm	1124	908	1109	1004
Phosphorus	ppm	1008	740	935	859
Barium	ppm	0	0	0	0
Boron	ppm	31	41	55	42

Depot: SAIBIR
Unique No: 10754008
Signed: Don Baldrige
Report Date: 25 Nov 2023



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VOLVO GRAPHS

