



CONSTRUCTION EQUIPMENT

VOLVO A45G 352134 - DIESEL ENGINE



Sample No: VCP428965
Oil Type: DIESEL ENGINE OIL SAE 40
Job No:



SAMPLE INFORMATION

Sample Number	VCP428965	VCP435398	VCP416406	VCP413257
Sample Date	22 Nov 2023	26 Sep 2023	31 Jul 2023	31 May 2023
Machine Hours	8724	8228	7719	7234
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	12.9	12.9	12.7	12.9
Base Number (BN)	mg KOH/g	9.1	9.7	10.0	9.8
Oxidation (PA)	%	81	83	83	82

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 %	%	0.3	0.3	0.3	0.3
Nitration (PA)	%	68	63	64	64
Sulfation (PA)	%	61	62	63	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	6	5	4
Sodium	ppm	2	2	2	1
Potassium	ppm	0	<1	0	0



WEAR METALS

Iron	ppm	5	6	6	8
Copper	ppm	<1	<1	<1	0
Lead	ppm	0	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	1	4	3	0
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	40	42	38	41
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1740	1647	1742	1765
Magnesium	ppm	517	483	501	545
Zinc	ppm	1096	1121	1187	1260
Phosphorus	ppm	955	923	954	982
Barium	ppm	0	0	0	0
Boron	ppm	35	34	34	40

Depot: SAIBIR
Unique No: 10765813
Signed: Don Baldrige
Report Date: 03 Dec 2023



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GRAPHS

