



CONSTRUCTION EQUIPMENT

SWO-067233 VOLVO A60H A60H 340126 - DIESEL ENGINE



Sample No: VCP428903
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-067233



SAMPLE INFORMATION

Sample Number	VCP428903	VCP401982	VCP397703	VCP381243
Sample Date	03 Nov 2023	10 Apr 2023	20 Jan 2023	19 Oct 2022
Machine Hours	9145	8117	7659	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	13.0	12.9	12.5	13.1
Base Number (BN)	mg KOH/g	10.1	9.5	10.0	9.6
Oxidation (PA)	%	81	74	78	73



CONTAMINATION

Soot %	%	0.6	0.2	0.5	0.8
Nitration (PA)	%	59	44	67	80
Sulfation (PA)	%	63	55	60	63
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	8	7	8
Sodium	ppm	14	5	13	32
Potassium	ppm	2	42	<1	<1



WEAR METALS

Iron	ppm	12	77	12	13
Copper	ppm	<1	23	<1	1
Lead	ppm	<1	0	1	1
Tin	ppm	<1	3	<1	<1
Aluminum	ppm	7	27	8	8
Chromium	ppm	<1	3	<1	<1
Molybdenum	ppm	40	52	45	33
Nickel	ppm	<1	<1	1	<1
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	4	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1750	1244	1943	1539
Magnesium	ppm	507	838	577	581
Zinc	ppm	1008	1032	1213	882
Phosphorus	ppm	935	813	956	737
Barium	ppm	0	0	0	0
Boron	ppm	41	11	45	38

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.

Depot: SAIBIR
Unique No: 10729730
Signed: Don Baldrige
Report Date: 09 Nov 2023



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GRAPHS

