



CONSTRUCTION EQUIPMENT

SWO-066958 VOLVO A60 340124 - DIESEL ENGINE



Sample No: VCP431965
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-066958



SAMPLE INFORMATION

Sample Number	VCP431965	VCP408958	VCP402389	VCP363531
Sample Date	06 Nov 2023	15 Jun 2023	04 Mar 2023	26 Oct 2022
Machine Hours	8770	2220	7828	7297
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	13.2	12.6	13.1
Base Number (BN)	mg KOH/g	10.0	9.3	9.6	10.1
Oxidation (PA)	%	80	84	67	66



CONTAMINATION

Soot %	%	0.8	0.7	0.4	0.1
Nitration (PA)	%	67	68	64	50
Sulfation (PA)	%	63	63	56	67
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	12	11	6	6
Sodium	ppm	7	8	23	2
Potassium	ppm	1	0	0	0



WEAR METALS

Iron	ppm	19	15	6	7
Copper	ppm	<1	<1	1	6
Lead	ppm	2	2	<1	<1
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	7	6	2	2
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	44	46	35
Nickel	ppm	2	1	<1	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	<1	0
Manganese	ppm	<1	<1	1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1716	1613	1342	1626
Magnesium	ppm	514	541	731	549
Zinc	ppm	1003	1087	1026	912
Phosphorus	ppm	917	903	854	768
Barium	ppm	0	0	0	0
Boron	ppm	27	36	14	43

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: 10729743
Signed: Jonathan Hester
Report Date: 09 Nov 2023



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GRAPHS

