



CONSTRUCTION EQUIPMENT

SWO-064940 VOLVO A60 340104 - DIESEL ENGINE



Sample No: VCP411749
Oil Type: DIESEL ENGINE OIL SAE 40
Job No: SWO-064940



SAMPLE INFORMATION

Sample Number	VCP411749	VCP405921	VCP363659	VCP364258
Sample Date	24 Aug 2023	17 Apr 2023	08 Nov 2022	25 Aug 2022
Machine Hours	8689	8086	7528	6996
Oil Hours	0	0	0	0
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SAIIA CONSTRUCTION LLC
 4400 LEWISBURG RD
 BIRMINGHAM, AL
 US 35207
 Contact: STEPHANI BRITTON
 sbritton@saiia.com;doug.bogart@wearcheck.com
 T: (205)943-2268
 F: (205)943-2269



OIL CONDITION

Visc @ 100°C	cSt	12.9	13.0	13.2	13.3
Base Number (BN)	mg KOH/g	9.8	8.9	11.3	9.3
Oxidation (PA)	%	82	75	86	90



CONTAMINATION

Soot %	%	0.5	0.7	0.7	1
Nitration (PA)	%	66	69	72	92
Sulfation (PA)	%	63	61	67	70
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	7	8	8
Sodium	ppm	2	5	4	11
Potassium	ppm	1	2	2	21



WEAR METALS

Iron	ppm	9	12	11	17
Copper	ppm	<1	2	2	10
Lead	ppm	<1	<1	1	2
Tin	ppm	<1	<1	2	<1
Aluminum	ppm	4	3	6	14
Chromium	ppm	<1	<1	<1	<1
Molybdenum	ppm	40	46	39	44
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	<1
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1587	1543	1642	1531
Magnesium	ppm	485	652	513	572
Zinc	ppm	1043	1075	1076	1084
Phosphorus	ppm	882	877	925	858
Barium	ppm	0	0	0	<1
Boron	ppm	32	22	33	23

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.

Depot: SAIBIR
Unique No: 10630054
Signed: Sean Felton
Report Date: 01 Sep 2023



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GRAPHS

