



CONSTRUCTION EQUIPMENT

SWO-065604 VOLVO A60H 350187 - DIESEL ENGINE



Sample No: VCP428996
Oil Type: NOT GIVEN
Job No: SWO-065604



SAMPLE INFORMATION

Sample Number	VCP428996	VCP357978	VCP395400	VCP384137
Sample Date	06 Sep 2023	09 Mar 2023	28 Feb 2023	14 Oct 2022
Machine Hours	2021	1585	1556	1098
Oil Hours	0	0	0	0
Oil Changed	Changed	Not Chngd	Changed	Changed
Sample Status	NORMAL	ATTENTION	SEVERE	ATTENTION

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	12.7	13.4	12.6	12.7
Base Number (BN)	mg KOH/g	10.3	11.3	11.6	10.6
Oxidation (PA)	%	75	75	79	83



CONTAMINATION

Soot %	%	0.2	0.1	0.3	0.6
Nitration (PA)	%	46	43	63	69
Sulfation (PA)	%	58	60	61	68
Glycol	%	NEG	0.0	0.10	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	5	11
Sodium	ppm	12	56	382	92
Potassium	ppm	<1	6	42	8



WEAR METALS

Iron	ppm	8	3	12	17
Copper	ppm	1	3	17	26
Lead	ppm	0	0	0	<1
Tin	ppm	<1	0	0	2
Aluminum	ppm	<1	<1	2	2
Chromium	ppm	0	<1	<1	<1
Molybdenum	ppm	42	42	44	47
Nickel	ppm	1	<1	4	3
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1862	1639	1734	1797
Magnesium	ppm	532	495	520	451
Zinc	ppm	1172	1108	1110	1057
Phosphorus	ppm	964	898	921	934
Barium	ppm	0	0	0	0
Boron	ppm	63	64	24	29

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: 10645903
Signed: Don Baldrige
Report Date: 18 Sep 2023



CONSTRUCTION EQUIPMENT



GRAPHS

