



CONSTRUCTION EQUIPMENT

SWO-067073 VOLVO A45G 352702 - DIESEL ENGINE



Sample No: VCP428901
Oil Type: DIESEL ENGINE OIL SAE 15W40
Job No: SWO-067073



SAMPLE INFORMATION

Sample Number	VCP428901	VCP427490	VCP410135	VCP393810
Sample Date	07 Nov 2023	15 Aug 2023	18 May 2023	20 Dec 2022
Machine Hours	3950	3389	2923	2406
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	13.1	12.7	12.6	12.7
Base Number (BN)	mg KOH/g	9.4	10.2	9.9	11.4
Oxidation (PA)	%	74	80	78	83



CONTAMINATION

Soot %	%	0.4	0.4	0.2	0.2
Nitration (PA)	%	63	60	65	61
Sulfation (PA)	%	58	62	62	66
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	6	5	6
Sodium	ppm	<1	3	3	3
Potassium	ppm	<1	0	3	<1



WEAR METALS

Iron	ppm	8	9	9	6
Copper	ppm	<1	3	11	82
Lead	ppm	2	<1	2	<1
Tin	ppm	1	<1	1	<1
Aluminum	ppm	2	2	<1	<1
Chromium	ppm	0	0	0	<1
Molybdenum	ppm	45	41	47	41
Nickel	ppm	1	<1	2	2
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1438	1761	2130	1697
Magnesium	ppm	625	507	637	533
Zinc	ppm	1153	1107	1493	1117
Phosphorus	ppm	1004	934	1048	923
Barium	ppm	0	0	0	0
Boron	ppm	28	40	60	53

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: 10739031
Signed: Don Baldrige
Report Date: 15 Nov 2023



CONSTRUCTION EQUIPMENT



GRAPHS

