



CONSTRUCTION EQUIPMENT

VOLVO A40G 342658 - DIESEL ENGINE



Sample No: VCP312842
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312842	VCP329504	VCP339696	VCP404644
Sample Date	11 Dec 2023	06 Nov 2023	03 Oct 2023	24 Aug 2023
Machine Hours	9899	9682	9447	9142
Oil Hours	217	235	305	249
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	12.9	12.8	12.7	12.5
Base Number (BN)	mg KOH/g	6.9	7.0	6.3	10.5
Oxidation (PA)	%	59	63	65	80



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.2	0.2	0.2	0.2
Nitration (PA)	%	68	73	60	52
Sulfation (PA)	%	50	52	52	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	4	4
Sodium	ppm	3	4	4	6
Potassium	ppm	2	<1	2	2



WEAR METALS

Iron	ppm	4	6	6	8
Copper	ppm	<1	1	2	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	3	4	4	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	123	119	86	37
Nickel	ppm	<1	<1	<1	<1
Titanium	ppm	0	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	0	<1
Vanadium	ppm	0	<1	0	0



ADDITIVES

Calcium	ppm	1226	1327	1443	1648
Magnesium	ppm	651	701	587	520
Zinc	ppm	845	934	907	859
Phosphorus	ppm	751	731	761	725
Barium	ppm	0	0	0	2
Boron	ppm	122	113	80	51

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: SCHGRE
Unique No: 10806385
Signed: Don Baldrige
Report Date: 28 Dec 2023

VOLVO **GRAPHS**

