



CONSTRUCTION EQUIPMENT

VOLVO A40G 352199 - DIESEL ENGINE



Sample No: VCP404651
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP404651	VCP342184	VCP390570	VCP406829
Sample Date	19 Jul 2023	07 Jun 2023	02 May 2023	22 Mar 2023
Machine Hours	5644	5381	5149	4838
Oil Hours	263	232	311	241
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	12.6	12.7	12.8	12.6
Base Number (BN)	mg KOH/g	10.1	9.8	8.7	10.2
Oxidation (PA)	%	81	83	73	75



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	54	53	50	52
Sulfation (PA)	%	60	62	54	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	4	4	0
Sodium	ppm	0	2	1	3
Potassium	ppm	1	<1	0	0



WEAR METALS

Iron	ppm	3	3	3	3
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	<1	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	0	1	1
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	38	40	40
Nickel	ppm	1	1	<1	<1
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1656	1574	1764	1833
Magnesium	ppm	478	471	527	553
Zinc	ppm	888	872	903	989
Phosphorus	ppm	757	725	794	839
Barium	ppm	2	0	0	0
Boron	ppm	56	57	53	38

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: SCHGRE
Unique No: 10586125
Signed: Wes Davis
Report Date: 03 Aug 2023



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GRAPHS

