



CONSTRUCTION EQUIPMENT

VOLVO A40G 352198 - DIESEL ENGINE



Sample No: VCP312690
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312690	VCP402951	VCP405726	VCP362755
Sample Date	06 Sep 2023	01 Aug 2023	19 Jun 2023	12 May 2023
Machine Hours	4393	4135	3898	3666
Oil Hours	258	237	232	214
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	12.3	12.4	12.5	12.7
Base Number (BN)	mg KOH/g	10.3	10.3	9.9	10.4
Oxidation (PA)	%	80	79	78	56

CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	51	50	48	48
Sulfation (PA)	%	60	60	60	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	4	4	4
Sodium	ppm	2	3	2	1
Potassium	ppm	<1	0	<1	4

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.

WEAR METALS

Iron	ppm	4	3	4	5
Copper	ppm	<1	<1	2	3
Lead	ppm	0	0	0	1
Tin	ppm	<1	0	0	<1
Aluminum	ppm	3	<1	<1	2
Chromium	ppm	0	0	<1	<1
Molybdenum	ppm	56	41	44	57
Nickel	ppm	1	<1	<1	1
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1

ADDITIVES

Calcium	ppm	2200	1690	1681	1157
Magnesium	ppm	661	515	604	1000
Zinc	ppm	1227	891	1031	1300
Phosphorus	ppm	1038	768	849	1006
Barium	ppm	0	0	0	0
Boron	ppm	78	62	59	6

Depot: SCHGRE
Unique No: 10671650
Signed: Wes Davis
Report Date: 02 Oct 2023



CONSTRUCTION EQUIPMENT



GRAPHS

