



CONSTRUCTION EQUIPMENT

VOLVO A40G 342010 - DIESEL ENGINE



Sample No: VCP362632
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP362632	VCP378435	VCP406133	VCP379367
Sample Date	24 Oct 2023	12 Sep 2023	01 Aug 2023	20 Jun 2023
Machine Hours	8705	8374	8039	7743
Oil Hours	331	335	296	286
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	12.2	12.4	12.5
Base Number (BN)	mg KOH/g	8.0	10.3	10.3	10.1
Oxidation (PA)	%	64	80	80	82

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.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	64	49	48	48
Sulfation (PA)	%	52	60	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	4	5	5
Sodium	ppm	3	<1	3	2
Potassium	ppm	2	<1	0	<1



WEAR METALS

Iron	ppm	2	2	2	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	0
Aluminum	ppm	5	2	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	111	41	41	41
Nickel	ppm	<1	0	0	0
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1343	1647	1713	1780
Magnesium	ppm	659	473	514	539
Zinc	ppm	932	902	887	981
Phosphorus	ppm	762	742	767	807
Barium	ppm	<1	0	0	0
Boron	ppm	96	48	55	59

Depot: SCHGRE
Unique No: 10723707
Signed: Don Baldrige
Report Date: 02 Nov 2023



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GRAPHS

