



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - DIESEL ENGINE



Sample No: VCP440658
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP440658	VCP396955	VCP341880	VCP405244
Sample Date	29 Nov 2023	30 Oct 2023	09 Oct 2023	29 Aug 2023
Machine Hours	6434	6234	6086	5785
Oil Hours	200	148	301	307
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	12.8	13.0	12.8	12.5
Base Number (BN)	mg KOH/g	6.8	7.3	7.2	10.0
Oxidation (PA)	%	59	59	64	81



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.2
Nitration (PA)	%	68	66	66	56
Sulfation (PA)	%	49	49	51	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	7	5	5	4
Sodium	ppm	11	4	6	10
Potassium	ppm	4	1	3	4



WEAR METALS

Iron	ppm	4	<1	3	4
Copper	ppm	0	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	<1
Aluminum	ppm	9	5	10	3
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	131	114	102	37
Nickel	ppm	<1	0	<1	0
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1296	1272	1348	1648
Magnesium	ppm	691	685	618	516
Zinc	ppm	914	894	887	855
Phosphorus	ppm	737	727	756	722
Barium	ppm	0	0	0	2
Boron	ppm	140	124	90	48

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: 10780137
Signed: Don Baldrige
Report Date: 13 Dec 2023



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GRAPHS

