



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - DIESEL ENGINE



Sample No: VCP341880
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP341880	VCP405244	VCP402319	VCP342183
Sample Date	09 Oct 2023	29 Aug 2023	19 Jul 2023	06 Jun 2023
Machine Hours	6086	5785	5478	5215
Oil Hours	301	307	263	220
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.5	12.5	12.7
Base Number (BN)	mg KOH/g	7.2	10.0	10.0	9.9
Oxidation (PA)	%	64	81	80	80



CONTAMINATION

Soot %	%	0.1	0.2	0.1	0.1
Nitration (PA)	%	66	56	53	53
Sulfation (PA)	%	51	61	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	2	4
Sodium	ppm	6	10	3	15
Potassium	ppm	3	4	4	6



WEAR METALS

Iron	ppm	3	4	2	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	<1	<1
Aluminum	ppm	10	3	<1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	102	37	43	40
Nickel	ppm	<1	0	<1	2
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1348	1648	1681	1620
Magnesium	ppm	618	516	483	491
Zinc	ppm	887	855	896	910
Phosphorus	ppm	756	722	777	751
Barium	ppm	0	2	2	0
Boron	ppm	90	48	57	55

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: 10700646
Signed: Don Baldrige
Report Date: 20 Oct 2023



CONSTRUCTION EQUIPMENT



VOLVO GRAPHS

