



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - DIESEL ENGINE



Sample No: VCP405994
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP405994	VCP386179	VCP384415	VCP386554
Sample Date	20 Jun 2023	10 May 2023	27 Mar 2023	28 Feb 2023
Machine Hours	15839	15588	15225	15032
Oil Hours	251	363	193	333
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.5	13.4	13.3
Base Number (BN)	mg KOH/g	9.3	8.9	9.1	8.1
Oxidation (PA)	%	100	107	96	110



CONTAMINATION

Soot %	%	0.3	0.1	0.1	0.2
Nitration (PA)	%	76	93	83	100
Sulfation (PA)	%	70	73	70	76
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	6	5	6	7
Sodium	ppm	2	3	3	4
Potassium	ppm	1	3	<1	1



WEAR METALS

Iron	ppm	6	10	8	14
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	2	0	2
Tin	ppm	0	<1	0	<1
Aluminum	ppm	1	2	<1	2
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	43	42	44	45
Nickel	ppm	0	<1	0	0
Titanium	ppm	<1	<1	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1904	1884	1722	1893
Magnesium	ppm	574	572	537	533
Zinc	ppm	1044	1049	976	1017
Phosphorus	ppm	855	795	792	801
Barium	ppm	0	0	0	2
Boron	ppm	57	61	59	67

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: 10545757
Signed: Wes Davis
Report Date: 05 Jul 2023

VOLVO **GRAPHS**

