



CONSTRUCTION EQUIPMENT

VOLVO A40G 352026 - DIESEL ENGINE



Sample No: VCP445742
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP445742	VCP395129	VCP341879	VCP402955
Sample Date	29 Nov 2023	30 Oct 2023	09 Oct 2023	29 Aug 2023
Machine Hours	9644	9458	9322	9029
Oil Hours	186	136	293	318
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.0	13.0	12.7	12.3
Base Number (BN)	mg KOH/g	7.0	7.4	7.2	10.0
Oxidation (PA)	%	58	59	62	81



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	66	65	64	55
Sulfation (PA)	%	48	49	50	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	0.4
Silicon	ppm	5	6	5	5
Sodium	ppm	6	2	5	4
Potassium	ppm	2	<1	2	1



WEAR METALS

Iron	ppm	2	1	3	4
Copper	ppm	0	<1	0	0
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	5	3	4	1
Chromium	ppm	<1	0	<1	<1
Molybdenum	ppm	129	115	100	37
Nickel	ppm	0	0	0	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	1265	1274	1353	1637
Magnesium	ppm	677	686	611	514
Zinc	ppm	885	901	881	855
Phosphorus	ppm	729	727	743	717
Barium	ppm	0	0	0	2
Boron	ppm	145	126	99	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: 10780134
Signed: Don Baldrige
Report Date: 13 Dec 2023



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GRAPHS

