



CONSTRUCTION EQUIPMENT

VOLVO A40G 352026 - DIESEL ENGINE



Sample No: VCP399417
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP399417	VCP436365	VCP445742	VCP395129
Sample Date	12 Mar 2024	08 Feb 2024	29 Nov 2023	30 Oct 2023
Machine Hours	10136	9959	9644	9458
Oil Hours	177	315	186	136
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.4	13.0	13.0
Base Number (BN)	mg KOH/g	8.6	6.5	7.0	7.4
Oxidation (PA)	%	69	60	58	59



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	58	69	66	65
Sulfation (PA)	%	54	50	48	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.5	<1.0	<1.0
Silicon	ppm	4	6	5	6
Sodium	ppm	4	2	6	2
Potassium	ppm	2	2	2	<1



WEAR METALS

Iron	ppm	3	4	2	1
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	4	3	5	3
Chromium	ppm	<1	0	<1	0
Molybdenum	ppm	80	118	129	115
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	0	0
Vanadium	ppm	<1	0	0	0



ADDITIVES

Calcium	ppm	1445	1252	1265	1274
Magnesium	ppm	568	623	677	686
Zinc	ppm	866	836	885	901
Phosphorus	ppm	742	788	729	727
Barium	ppm	0	12	0	0
Boron	ppm	88	127	145	126

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: 10937561
Signed: Wes Davis
Report Date: 21 Mar 2024



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GRAPHS

