



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - DIESEL ENGINE



Sample No: VCP399979
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP399979	VCP436361	VCP440658	VCP396955
Sample Date	12 Mar 2024	08 Feb 2024	29 Nov 2023	30 Oct 2023
Machine Hours	6964	6743	6434	6234
Oil Hours	221	309	200	148
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.8	12.4	12.8	13.0
Base Number (BN)	mg KOH/g	7.9	6.5	6.8	7.3
Oxidation (PA)	%	67	60	59	59



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	63	70	68	66
Sulfation (PA)	%	53	50	49	49
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.4	<1.0	<1.0
Silicon	ppm	4	5	7	5
Sodium	ppm	5	3	11	4
Potassium	ppm	2	3	4	1



WEAR METALS

Iron	ppm	2	3	4	<1
Copper	ppm	<1	<1	0	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	0	0	0
Aluminum	ppm	5	4	9	5
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	87	119	131	114
Nickel	ppm	<1	<1	<1	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	1411	1241	1296	1272
Magnesium	ppm	582	626	691	685
Zinc	ppm	875	837	914	894
Phosphorus	ppm	757	763	737	727
Barium	ppm	0	12	0	0
Boron	ppm	93	124	140	124

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: 10937559
Signed: Wes Davis
Report Date: 21 Mar 2024

VOLVO **GRAPHS**

