



CONSTRUCTION EQUIPMENT

VOLVO A40G 352349 - DIESEL ENGINE



Sample No: VCP436361
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP436361	VCP440658	VCP396955	VCP341880
Sample Date	08 Feb 2024	29 Nov 2023	30 Oct 2023	09 Oct 2023
Machine Hours	6743	6434	6234	6086
Oil Hours	309	200	148	301
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.8	13.0	12.8
Base Number (BN)	mg KOH/g	6.5	6.8	7.3	7.2
Oxidation (PA)	%	60	59	59	64

CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	70	68	66	66
Sulfation (PA)	%	50	49	49	51
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	0.4	<1.0	<1.0	<1.0
Silicon	ppm	5	7	5	5
Sodium	ppm	3	11	4	6
Potassium	ppm	3	4	1	3

Diagnosis
 Resample at the next service interval to monitor. All component wear rates are normal. Tests indicate that there is no fuel present in the oil. 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.

WEAR METALS

Iron	ppm	3	4	<1	3
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	0	<1
Aluminum	ppm	4	9	5	10
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	119	131	114	102
Nickel	ppm	<1	<1	0	<1
Titanium	ppm	<1	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	0	0
Vanadium	ppm	0	0	0	0

ADDITIVES

Calcium	ppm	1241	1296	1272	1348
Magnesium	ppm	626	691	685	618
Zinc	ppm	837	914	894	887
Phosphorus	ppm	763	737	727	756
Barium	ppm	12	0	0	0
Boron	ppm	124	140	124	90

Depot: SCHGRE
Unique No: 10876041
Signed: Sean Felton
Report Date: 15 Feb 2024



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GRAPHS

