



CONSTRUCTION EQUIPMENT

VOLVO A40G 342010 - DIESEL ENGINE



Sample No: VCP406133
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP406133	VCP379367	VCP362754	VCP378538
Sample Date	01 Aug 2023	20 Jun 2023	10 May 2023	27 Mar 2023
Machine Hours	8039	7743	7457	7115
Oil Hours	296	286	342	205
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.4	12.5	12.5	12.6
Base Number (BN)	mg KOH/g	10.3	10.1	10.1	10.0
Oxidation (PA)	%	80	82	81	76

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.



CONTAMINATION

Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	48	48	50	46
Sulfation (PA)	%	60	61	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	5	5	5
Sodium	ppm	3	2	2	2
Potassium	ppm	0	<1	3	0



WEAR METALS

Iron	ppm	2	3	2	<1
Copper	ppm	<1	<1	0	0
Lead	ppm	0	0	1	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	<1	<1	2	<1
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	41	41	35	41
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	<1	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	<1
Vanadium	ppm	<1	0	<1	0



ADDITIVES

Calcium	ppm	1713	1780	1660	1605
Magnesium	ppm	514	539	478	468
Zinc	ppm	887	981	884	844
Phosphorus	ppm	767	807	677	720
Barium	ppm	0	0	0	0
Boron	ppm	55	59	52	62

Depot: SCHGRE
Unique No: 10617103
Signed: Wes Davis
Report Date: 24 Aug 2023



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GRAPHS

