



CONSTRUCTION EQUIPMENT

VOLVO A40G 342610 - DIESEL ENGINE



Sample No: VCP405980
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP405980	VCP406110	VCP402329	VCP384403
Sample Date	24 Oct 2023	24 Aug 2023	13 Jul 2023	30 May 2023
Machine Hours	10504	10233	9910	9672
Oil Hours	271	323	238	231
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.4	12.6	12.8
Base Number (BN)	mg KOH/g	8.7	10.2	10.3	9.9
Oxidation (PA)	%	69	80	80	80

CONTAMINATION

Soot %	%	0.2	0.2	0.1	0.2
Nitration (PA)	%	63	53	51	53
Sulfation (PA)	%	55	61	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	2	4
Sodium	ppm	3	2	0	2
Potassium	ppm	2	<1	1	0

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.

WEAR METALS

Iron	ppm	6	5	4	5
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	<1	<1	0	<1
Aluminum	ppm	5	1	<1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	87	37	42	40
Nickel	ppm	4	<1	<1	<1
Titanium	ppm	<1	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	<1	0	0	0

ADDITIVES

Calcium	ppm	1436	1651	1685	1720
Magnesium	ppm	604	521	477	509
Zinc	ppm	924	863	893	915
Phosphorus	ppm	762	723	762	733
Barium	ppm	<1	2	2	0
Boron	ppm	91	43	56	55

Depot: SCHGRE
Unique No: 10723709
Signed: Wes Davis
Report Date: 02 Nov 2023

VOLVO GRAPHS

