



CONSTRUCTION EQUIPMENT

VOLVO A40G 342610 - DIESEL ENGINE



Sample No: VCP402329
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP402329	VCP384403	VCP395617	VCP385250
Sample Date	13 Jul 2023	30 May 2023	27 Apr 2023	06 Mar 2023
Machine Hours	9910	9672	9441	9074
Oil Hours	238	231	367	308
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

SCHILDBERG CONSTRUCTION COMPANY
 PO BOX 358
 GREENFIELD, IA
 US 50849
 Contact: SCOTT ARMSTRONG
 sarmstrong@schildberg.com
 T: (641)743-8237
 F: (641)743-2486



OIL CONDITION

Visc @ 100°C	cSt	█ 12.6	█ 12.8	█ 12.6	█ 12.5
Base Number (BN)	mg KOH/g	█ 10.3	█ 9.9	█ 8.8	█ 10.1
Oxidation (PA)	%	80	80	75	78

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



WEAR METALS

Iron	ppm	█ 4	█ 5	█ 10	█ 9
Copper	ppm	█ <1	█ <1	█ <1	█ 1
Lead	ppm	█ 0	█ 0	█ 0	█ 0
Tin	ppm	█ 0	█ <1	█ <1	█ <1
Aluminum	ppm	█ <1	█ <1	█ 2	█ 2
Chromium	ppm	█ 0	█ <1	█ <1	█ <1
Molybdenum	ppm	█ 42	█ 40	█ 41	█ 40
Nickel	ppm	█ <1	█ <1	█ 2	█ <1
Titanium	ppm	0	<1	<1	0
Silver	ppm	█ 0	█ 0	█ 0	█ 0
Manganese	ppm	█ <1	█ <1	█ <1	█ <1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	█ 1685	█ 1720	█ 1804	█ 1665
Magnesium	ppm	█ 477	█ 509	█ 526	█ 483
Zinc	ppm	█ 893	█ 915	█ 900	█ 903
Phosphorus	ppm	█ 762	█ 733	█ 789	█ 756
Barium	ppm	█ 2	█ 0	█ 0	█ 2
Boron	ppm	█ 56	█ 55	█ 52	█ 66

Depot: SCHGRE
Unique No: 10586120
Signed: Jonathan Hester
Report Date: 03 Aug 2023



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GRAPHS

