



CONSTRUCTION EQUIPMENT

VOLVO A40G 342373 - DIESEL ENGINE



Sample No: VCP398089
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP398089	VCP341878	VCP402950	VCP402902
Sample Date	30 Oct 2023	09 Oct 2023	29 Aug 2023	19 Jul 2023
Machine Hours	12103	11957	11645	11379
Oil Hours	146	312	266	417
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	13.0	12.8	12.4	12.6
Base Number (BN)	mg KOH/g	7.6	7.2	10.4	9.9
Oxidation (PA)	%	58	63	80	80



CONTAMINATION

Soot %	%	0.1	0.2	0.1	0.2
Nitration (PA)	%	65	65	51	56
Sulfation (PA)	%	50	51	61	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	0.4	<1.0
Silicon	ppm	6	5	4	3
Sodium	ppm	5	6	4	8
Potassium	ppm	4	5	3	10



WEAR METALS

Iron	ppm	<1	3	3	4
Copper	ppm	<1	<1	0	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	5	7	2	3
Chromium	ppm	0	<1	<1	0
Molybdenum	ppm	115	100	31	42
Nickel	ppm	0	<1	0	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1290	1355	1494	1688
Magnesium	ppm	693	609	435	486
Zinc	ppm	909	879	770	915
Phosphorus	ppm	735	750	620	772
Barium	ppm	0	0	2	2
Boron	ppm	125	86	38	48

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: 10736457
Signed: Sean Felton
Report Date: 10 Nov 2023



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GRAPHS

