



CONSTRUCTION EQUIPMENT

VOLVO A40G 341462 - DIESEL ENGINE



Sample No: VCP447509
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP447509	VCP433564	VCP331521	VCP312984
Sample Date	09 May 2024	19 Mar 2024	30 Jan 2024	14 Nov 2023
Machine Hours	17798	17478	17292	17072
Oil Hours	320	186	220	185
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	12.5	12.9	12.8	13.0
Base Number (BN)	mg KOH/g	8.7	7.0	6.4	6.7
Oxidation (PA)	%	71	59	59	61

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 acceptable for the time in service.



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	60	68	72	68
Sulfation (PA)	%	56	49	49	50
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	9	6
Sodium	ppm	2	2	3	2
Potassium	ppm	1	2	1	<1



WEAR METALS

Iron	ppm	4	3	4	1
Copper	ppm	0	<1	<1	<1
Lead	ppm	<1	0	<1	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	2	5	5	3
Chromium	ppm	0	0	<1	0
Molybdenum	ppm	68	114	119	118
Nickel	ppm	0	1	1	0
Titanium	ppm	0	0	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	<1	<1	0
Vanadium	ppm	<1	<1	<1	<1



ADDITIVES

Calcium	ppm	1786	1273	1052	1273
Magnesium	ppm	571	655	577	682
Zinc	ppm	953	840	760	909
Phosphorus	ppm	825	686	608	692
Barium	ppm	0	0	34	0
Boron	ppm	88	125	116	130

Depot: SCHGRE
Unique No: 11074829
Signed: Sean Felton
Report Date: 14 Jun 2024



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GRAPHS

