



CONSTRUCTION EQUIPMENT

VOLVO A40G 342374 - DIESEL ENGINE



Sample No: VCP445793
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP445793	VCP398006	VCP400060	VCP384377
Sample Date	06 Dec 2023	29 Aug 2023	20 Jul 2023	07 Jun 2023
Machine Hours	10857	10584	10329	10123
Oil Hours	273	255	206	248
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	ABNORMAL	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	12.7	12.3	12.6	12.6
Base Number (BN)	mg KOH/g	7.4	9.8	10.2	10.1
Oxidation (PA)	%	68	76	79	78

Diagnosis

Oil and filter change at the time of sampling has been noted. No corrective action is recommended at this time. Resample at the next service interval to monitor. Valve wear is indicated. All other 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 %	%	0.2	0.1	0.1	0.2
Nitration (PA)	%	65	49	49	50
Sulfation (PA)	%	54	58	60	61
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.6	<1.0	<1.0
Silicon	ppm	6	4	3	3
Sodium	ppm	37	8	6	14
Potassium	ppm	29	4	8	10



WEAR METALS

Iron	ppm	12	<1	2	3
Copper	ppm	2	<1	<1	1
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	<1	<1
Aluminum	ppm	5	1	<1	0
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	95	37	42	39
Nickel	ppm	▲ 14	0	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	<1	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1508	1592	1666	1578
Magnesium	ppm	620	513	479	469
Zinc	ppm	938	872	883	870
Phosphorus	ppm	757	753	761	724
Barium	ppm	0	0	2	0
Boron	ppm	99	44	57	53

Depot: SCHGRE
Unique No: 10780141
Signed: Don Baldrige
Report Date: 13 Dec 2023



CONSTRUCTION EQUIPMENT



GRAPHS

