



CONSTRUCTION EQUIPMENT

VOLVO A40G 352198 - DIESEL ENGINE



Sample No: VCP312569
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312569	VCP312690	VCP402951	VCP405726
Sample Date	03 Oct 2023	06 Sep 2023	01 Aug 2023	19 Jun 2023
Machine Hours	4608	4393	4135	3898
Oil Hours	215	258	237	232
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	12.9	12.3	12.4	12.5
Base Number (BN)	mg KOH/g	7.5	10.3	10.3	9.9
Oxidation (PA)	%	61	80	79	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	0.1	0.1	0.1
Nitration (PA)	%	60	51	50	48
Sulfation (PA)	%	50	60	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	4	6	4	4
Sodium	ppm	2	2	3	2
Potassium	ppm	1	<1	0	<1



WEAR METALS

Iron	ppm	2	4	3	4
Copper	ppm	<1	<1	<1	2
Lead	ppm	0	0	0	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	4	3	<1	<1
Chromium	ppm	<1	0	0	<1
Molybdenum	ppm	101	56	41	44
Nickel	ppm	<1	1	<1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	<1	0



ADDITIVES

Calcium	ppm	1320	2200	1690	1681
Magnesium	ppm	610	661	515	604
Zinc	ppm	870	1227	891	1031
Phosphorus	ppm	738	1038	768	849
Barium	ppm	0	0	0	0
Boron	ppm	101	78	62	59

Depot: SCHGRE
Unique No: 10700637
Signed: Don Baldrige
Report Date: 20 Oct 2023



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GRAPHS

