



CONSTRUCTION EQUIPMENT

VOLVO A40G 352198 - DIESEL ENGINE



Sample No: VCP378559
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP378559	VCP312569	VCP312690	VCP402951
Sample Date	14 Dec 2023	03 Oct 2023	06 Sep 2023	01 Aug 2023
Machine Hours	4956	4608	4393	4135
Oil Hours	348	215	258	237
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.7	12.9	12.3	12.4
Base Number (BN)	mg KOH/g	6.4	7.5	10.3	10.3
Oxidation (PA)	%	63	61	80	79



CONTAMINATION

Water	%	NEG	NEG	NEG	NEG
Soot %	%	0.1	0.1	0.1	0.1
Nitration (PA)	%	74	60	51	50
Sulfation (PA)	%	51	50	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	6	4
Sodium	ppm	<1	2	2	3
Potassium	ppm	2	1	<1	0



WEAR METALS

Iron	ppm	4	2	4	3
Copper	ppm	<1	<1	<1	<1
Lead	ppm	0	0	0	0
Tin	ppm	0	0	<1	0
Aluminum	ppm	3	4	3	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	119	101	56	41
Nickel	ppm	1	<1	1	<1
Titanium	ppm	0	0	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	0	0	<1	<1
Vanadium	ppm	0	0	0	<1



ADDITIVES

Calcium	ppm	1240	1320	2200	1690
Magnesium	ppm	650	610	661	515
Zinc	ppm	856	870	1227	891
Phosphorus	ppm	772	738	1038	768
Barium	ppm	0	0	0	0
Boron	ppm	106	101	78	62

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.

Depot: SCHGRE
Unique No: 10806388
Signed: Don Baldrige
Report Date: 28 Dec 2023



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GRAPHS

