



CONSTRUCTION EQUIPMENT

VOLVO A40G 342010 - DIESEL ENGINE



Sample No: VCP339702
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP339702	VCP362632	VCP378435	VCP406133
Sample Date	04 Dec 2023	24 Oct 2023	12 Sep 2023	01 Aug 2023
Machine Hours	8892	8705	8374	8039
Oil Hours	187	331	335	296
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.6	12.2	12.4
Base Number (BN)	mg KOH/g	7.0	8.0	10.3	10.3
Oxidation (PA)	%	60	64	80	80

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)	%	66	64	49	48
Sulfation (PA)	%	49	52	60	60
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	5	4	4	5
Sodium	ppm	0	3	<1	3
Potassium	ppm	2	2	<1	0



WEAR METALS

Iron	ppm	2	2	2	2
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	0	0	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	3	5	2	<1
Chromium	ppm	<1	<1	0	0
Molybdenum	ppm	125	111	41	41
Nickel	ppm	<1	<1	0	0
Titanium	ppm	<1	<1	0	0
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1257	1343	1647	1713
Magnesium	ppm	656	659	473	514
Zinc	ppm	861	932	902	887
Phosphorus	ppm	724	762	742	767
Barium	ppm	11	<1	0	0
Boron	ppm	120	96	48	55

Depot: SCHGRE
Unique No: 10782829
Signed: Don Baldrige
Report Date: 15 Dec 2023



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VOLVO GRAPHS

