



CONSTRUCTION EQUIPMENT

VOLVO A40G 340668 - DIESEL ENGINE



Sample No: VCP312532
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP312532	VCP405247	VCP405985	VCP406123
Sample Date	04 Dec 2023	24 Oct 2023	12 Sep 2023	01 Aug 2023
Machine Hours	16909	16708	16380	16113
Oil Hours	201	328	267	274
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	13.2	13.3	12.8	12.9
Base Number (BN)	mg KOH/g	7.1	7.9	9.7	9.7
Oxidation (PA)	%	76	92	96	95

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 %	%	0.3	0.4	0.3	0.3
Nitration (PA)	%	91	93	76	76
Sulfation (PA)	%	60	67	70	68
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	16	10	6	6
Sodium	ppm	1	4	1	3
Potassium	ppm	3	3	<1	0



WEAR METALS

Iron	ppm	11	9	6	5
Copper	ppm	<1	<1	<1	<1
Lead	ppm	<1	<1	<1	0
Tin	ppm	<1	<1	<1	0
Aluminum	ppm	6	6	3	2
Chromium	ppm	<1	<1	<1	0
Molybdenum	ppm	118	97	44	42
Nickel	ppm	1	<1	0	0
Titanium	ppm	<1	<1	<1	<1
Silver	ppm	0	0	0	0
Manganese	ppm	<1	0	<1	<1
Vanadium	ppm	0	<1	0	<1



ADDITIVES

Calcium	ppm	1366	1550	1753	1801
Magnesium	ppm	656	656	506	534
Zinc	ppm	903	1004	968	933
Phosphorus	ppm	751	810	787	800
Barium	ppm	11	<1	0	0
Boron	ppm	110	68	49	51

Depot: SCHGRE
Unique No: 10782831
Signed: Don Baldrige
Report Date: 15 Dec 2023



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VOLVO GRAPHS

