



CONSTRUCTION EQUIPMENT

VOLVO A40G 352025 - DIESEL ENGINE



Sample No: VCP341883
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP341883	VCP405660	VCP404833	VCP400107
Sample Date	03 Oct 2023	21 Aug 2023	13 Jul 2023	30 May 2023
Machine Hours	9594	9271	9075	8804
Oil Hours	323	196	271	178
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.5	12.4	12.6	12.8
Base Number (BN)	mg KOH/g	8.5	10.5	10.1	10.1
Oxidation (PA)	%	70	78	80	75

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)	%	58	49	52	59
Sulfation (PA)	%	54	60	59	59
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	0.5	<1.0	<1.0
Silicon	ppm	5	3	4	5
Sodium	ppm	3	2	<1	3
Potassium	ppm	1	<1	2	3



WEAR METALS

Iron	ppm	4	3	3	2
Copper	ppm	<1	0	<1	<1
Lead	ppm	0	0	<1	0
Tin	ppm	0	<1	0	0
Aluminum	ppm	4	<1	1	<1
Chromium	ppm	<1	<1	0	<1
Molybdenum	ppm	86	30	53	40
Nickel	ppm	0	0	<1	0
Titanium	ppm	0	0	0	<1
Silver	ppm	0	0	0	0
Manganese	ppm	0	<1	<1	<1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1812	1460	2084	1699
Magnesium	ppm	685	428	604	506
Zinc	ppm	1106	758	1123	906
Phosphorus	ppm	941	607	963	723
Barium	ppm	0	2	2	0
Boron	ppm	85	51	73	56

Depot: SCHGRE
Unique No: 10700650
Signed: Wes Davis
Report Date: 20 Oct 2023



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GRAPHS

