



CONSTRUCTION EQUIPMENT

VOLVO A40G 352026 - DIESEL ENGINE



Sample No: VCP400068
Oil Type: MOBIL 15W40
Job No:



SAMPLE INFORMATION

Sample Number	VCP400068	VCP384383	VCP404866	VCP406821
Sample Date	19 Jul 2023	07 Jun 2023	02 May 2023	22 Mar 2023
Machine Hours	8711	8529	8289	7981
Oil Hours	182	240	308	227
Oil Changed	Changed	Changed	Changed	Changed
Sample Status	NORMAL	NORMAL	NORMAL	NORMAL

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OIL CONDITION

Visc @ 100°C	cSt	12.6	12.7	12.8	12.4
Base Number (BN)	mg KOH/g	10.2	10.1	8.6	10.3
Oxidation (PA)	%	80	73	73	76

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	0.3	0.1	0.1
Nitration (PA)	%	50	51	51	53
Sulfation (PA)	%	60	59	54	58
Glycol	%	NEG	NEG	NEG	NEG
Fuel	%	<1.0	<1.0	<1.0	<1.0
Silicon	ppm	2	4	4	<1
Sodium	ppm	1	6	11	16
Potassium	ppm	3	2	6	5



WEAR METALS

Iron	ppm	3	4	4	5
Copper	ppm	<1	2	0	<1
Lead	ppm	<1	<1	0	0
Tin	ppm	0	<1	<1	0
Aluminum	ppm	<1	<1	3	3
Chromium	ppm	0	<1	0	<1
Molybdenum	ppm	42	39	41	41
Nickel	ppm	<1	<1	<1	1
Titanium	ppm	0	0	<1	0
Silver	ppm	<1	0	0	<1
Manganese	ppm	<1	<1	<1	1
Vanadium	ppm	0	0	0	0



ADDITIVES

Calcium	ppm	1646	1588	1795	1798
Magnesium	ppm	470	473	539	565
Zinc	ppm	865	883	910	986
Phosphorus	ppm	760	733	803	838
Barium	ppm	2	0	0	0
Boron	ppm	62	56	52	39

Depot: SCHGRE
Unique No: 10586126
Signed: Wes Davis
Report Date: 03 Aug 2023

VOLVO GRAPHS

