

Automatic Checkup finished

Report date and time: 12/29/2012 at 6:26 PM
Atola Insight v2.6.4595.29524
DiskSense unit: USB

Device information:

WDC WD5000AAKS-00V1A0

Serial number: WD-WCAWF2426145

Firmware revision: 05.01D05

Capacity: 976,773,168 sectors or 500,107,862,016 bytes

512 bytes per sector

Diagnostics results

No major hardware or firmware issues have been found.

Found partition of an unknown type at sector 34. Partition size: 134 MB

Full Diagnostic Log

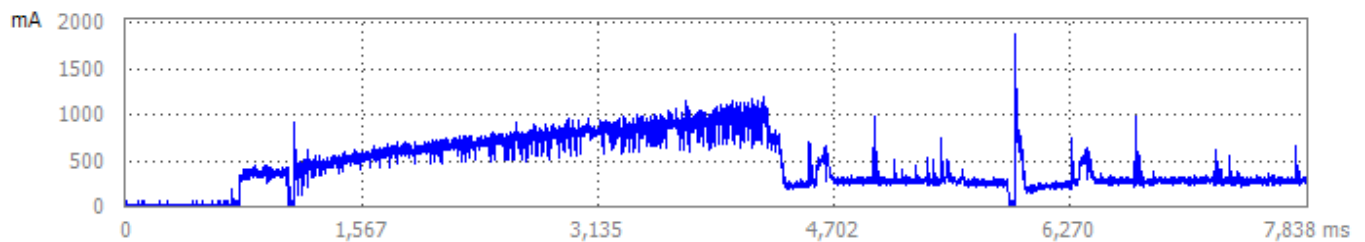
Circuit Board (PCB)

Selected Interface: SATA

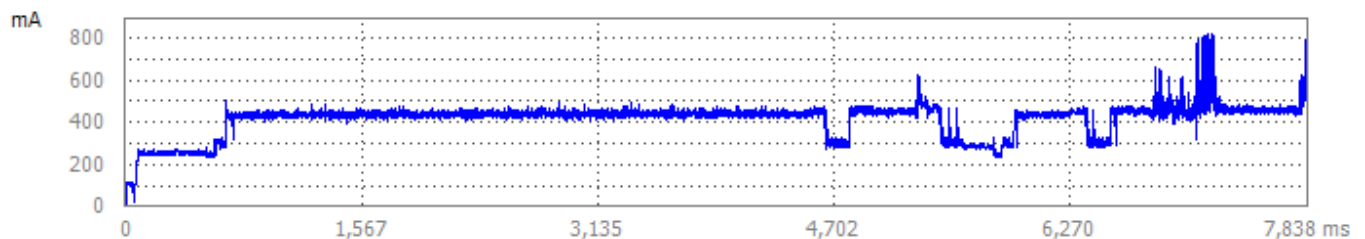
Device is powered on. A power cycle is needed...

Applying power and watching spin-up currents...

Current oscillogram (12V):



Current oscillogram (5V):



Device has become ready in 8 sec.

Registers: 0101 0001 0001 0000 0000 E0E0 5050 Alt: 5050

Peak power consumption during spin-up: 5V line = 799.56 mA; 12V line = 1834.75 mA

Status register seems to be valid.

Interface check passed.

Device has been identified: WDC WD5000AAKS-00V1A0 SN: WD-WCAWF2426145

Elapsed: 20.1 sec.

Circuit board looks fine

Heads

Checking power consumption curves for signs of head damage

Identifying the device

Detecting device family

All device identification checks have passed.

Detected 2 heads: 0 1

Performing media access timing verification separately for each head.

Head #	Speed	Sectors processed	Hang-up count	Read Errors	Head status
0	90 MB/s	684,855	0	0	OK
1	97 MB/s	831,790	0	0	OK

Media access timing verification shows no damage to the head stack.

Elapsed: 9.5 sec.

Head stack looks fine

Media Surface

Media scan is running...

Verifying outer tracks (LBA: 0–600,064)

0 error(s) found

Verifying middle tracks (LBA: 488,386,583–488,986,647)

0 error(s) found

Verifying inner tracks (LBA: 976,173,103–976,773,167)

0 error(s) found

Elapsed: 9.6 sec.

Media surface looks fine

Firmware

Device is not locked.

Device identification data looks fine.

Max Address according to device ID: 976,773,167

Native Max Address Ext: 976,773,167

Max Address from DCO: 976,773,167

Reported capacity looks logically correct.

Performing SMART checks...

#	Attribute Name	Value	Worst	Threshold	RAW
1	Read error rate	200	200	51	0
3	Spin up time	142	141	21	3,875
4	Number of spin-up times	100	100	0	28
5	Reallocated sectors count	200	200	140	0
7	Seek error rate	200	200	0	0
9	Power-on time	100	100	0	47
10	Spin-up retries	100	253	0	0
11	Calibration retries	100	253	0	0
12	Power Cycles	100	100	0	26
192	Power-off retract count	200	200	0	19
193	Load/unload cycle count	200	200	0	8
194	HDA Temperature	113	99	0	30
196	Reallocate event count	200	200	0	0
197	Current pending sectors	200	200	0	0

198	Offline scan UNC sectors	200	200	0	0
199	Ultra ATA CRC Error Rate	200	200	0	0
200	Write error rate at preamp	200	200	0	0

Elapsed: 0.2 sec.

Firmware looks fine

File System Structures

Found partition at sector 34 (type Unknown). Partition size: 134 MB.

Found partition of an unknown type at sector 34. Partition size: 134 MB

Found partition at sector 264192 (type NTFS). Partition size: 249 GB.

Found partition at sector 488517632 (type NTFS). Partition size: 249 GB.

Checking NTFS partition at sector 264192. Partition size: 249 GB

Checking NTFS partition at sector 488517632. Partition size: 249 GB

Elapsed: 0.2 sec.

File System Structures check complete.