

WDC WD3200JD-00KLB0 WDWCAMR1030181 320 GB

SATA 1

Case ID: 345677

Creation date: 07/05/2023 2:09 PM

TaskForce serial: 14714747

Location: SATA 1

Device model: WDC WD3200JD-00KLB0

Size: 320 GB (320,072,933,376 bytes)

Case investigator: Adam Bert

Software version: 2023.6

TaskForce IP: 10.0.0.236

Write protection: On

Device serial: WDWCAMR1030181

Device firmware: 0805J08

Case description: Victims' personal data

Diagnostics completed. Device has major issues

Results

According to the media access timing verification test, the head stack is malfunctioning.

Recommendation: disable damaged/degraded heads in imaging settings to image good heads first.

SMART reports that there are defects in the media.

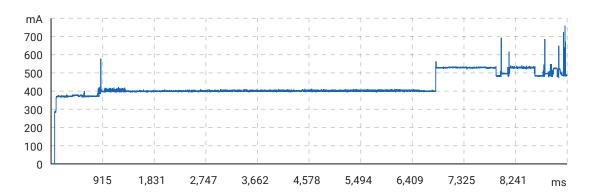
1. Circuit board

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

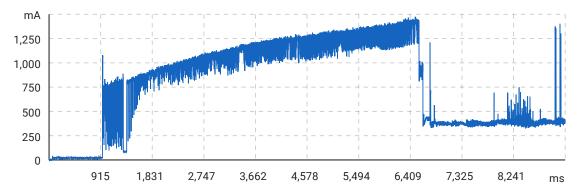
Powering down the device...

Applying power and watching currents...

Current oscillogram (5V):



Current oscillogram (12V):



Device has become ready in 9 sec

Registers. Status: 01010000 Error: 00000001

Peak power consumption during power-up: 5V line = 758.85 mA; 12V line = 1474.62 mA

Integrity word of device identification data is OK.

Device identified: WDC WD3200JD-00KLB0 SN: WDWCAMR1030181

Logical sector size: 512 bytes. Physical sector size: 512 bytes

Circuit board check passed

Elapsed: 18.7 sec.

2. Heads

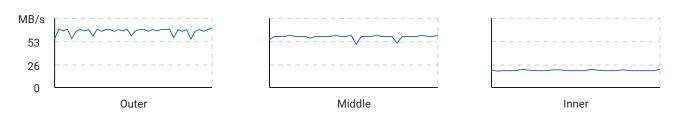
Detecting device family

Detected 6 heads: 0 1 2 3 4 5

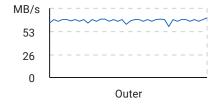
Performing media access timing verification separately for each head.

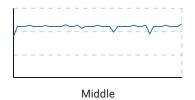
624,242,447 - 625,142,447

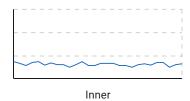
Head #0 speed graph



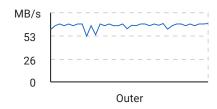
Head #1 speed graph

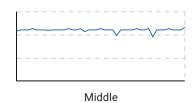


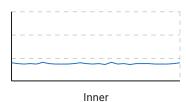




Head #2 speed graph



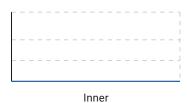




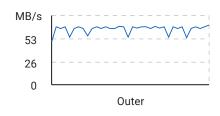
Head #3 speed graph

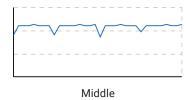


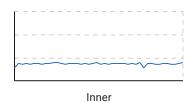




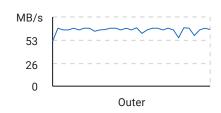
Head #4 speed graph

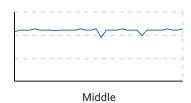


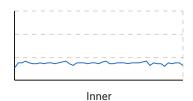




Head #5 speed graph







Head #	Speed	Sectors processed	Freeze count	Read errors	Head status
0	43 MB/s	402,343	0	0	OK

1	39 MB/s	435,829	0	0	OK
2	44 MB/s	436,903	0	0	OK
3	< 1 KB/s	195,027	0	96	Damaged
4	46 MB/s	380,231	0	0	OK
5	43 MB/s	366,277	0	0	OK

According to the media access timing verification test, the head stack is malfunctioning.

Recommendation: disable damaged/degraded heads in imaging settings to image good heads first.

Elapsed: 246.8 sec.

3. Media scan

Media scan test has been skipped because the head stack is malfunctioning.

4. Firmware

Device is not locked.

Device identification data is valid.

Max address according to device ID: 625,142,447

Native max address (ext): 625,142,447

Max Address from DCO: 625,142,447.

Reported capacity appears logically correct.

Performing SMART checks...

SMART reports that there are defects in the media.

Power cycles: 735 Smart status: Fail Powered on: 566 days 2 hours

#	Attribute Name	Value	Worst	Threshold	RAW	Status
1	Raw Read Error Rate	199	199	51	12770	OK
3	Spin Up Time	185	173	21	5716	OK
4	Number of spin-up times	100	100	0	747	OK
5	Reallocated Sector Ct	183	183	140	131	FAIL
7	Seek Error Rate	200	200	51	0	OK
9	Power On Hours	82	82	0	13586	OK
10	Spin Retry Count	100	100	51	1	ОК

11	Calibration Retry Count	100	100	51	0	OK
12	Power Cycle Count	100	100	0	735	OK
194	Temperature Celsius	118	103	0	32	OK
196	Reallocated Event Count	111	111	0	89	OK
197	Current Pending Sector	171	1	0	1544	FAIL
198	Offline Uncorrectable	200	200	0	0	OK
199	UDMA CRC Error Count	200	200	0	8	OK
200	Multi Zone Error Rate	200	200	51	0	OK

Reading SMART temperature...

Temperature and power cycle history

Temperature measurements are unavailable for this device.

Firmware check passed

Elapsed: 0.1 sec.

5. File system

File system test can't be started because the device had issues during one of the previous checks.