



HGST HTS545050A7E680 RBE50AM52D2U0P
500 GB

SATA 1

Case ID:
Not assigned

Creation date: 10/22/2019 9:51 AM
TaskForce serial: 51515151
Location: SATA 1
Device model: HGST HTS545050A7E680
Size: 500 GB (500,107,862,016 bytes)
Case investigator:

Software version: 2019.9
TaskForce IP: 10.0.0.73
Write protection: Off
Device serial: RBE50AM52D2U0P
Device firmware: GR20A230
Case description:

Diagnostics completed

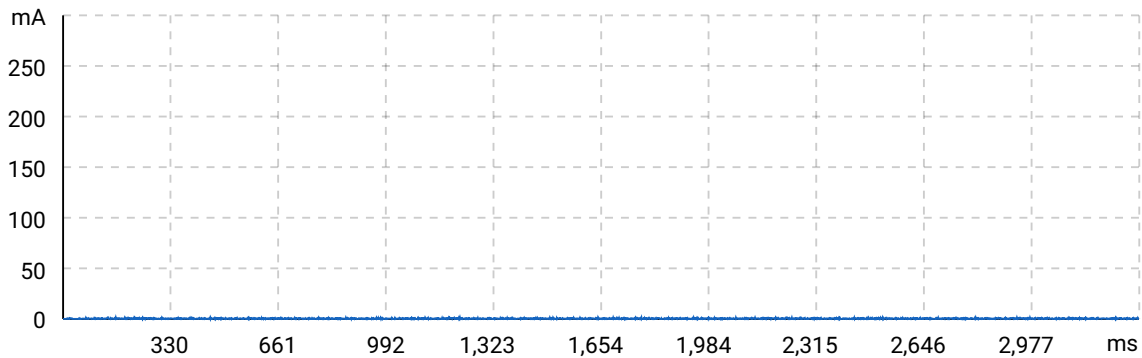
Results

No major hardware or firmware issues found
Found partition of an unknown type at sector 819,200. Partition size: 134 MB
74% of the disk is not associated with any partition.
Estimated imaging time: 1 hour 35 minutes

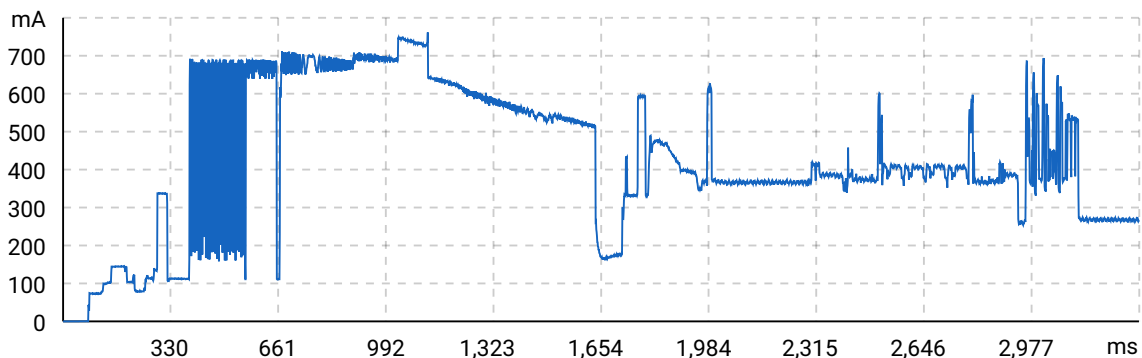
1. Circuit board

Applying power and watching spin-up currents...

Current oscillogram (12V):



Current oscillogram (5V):



Device has become ready in 3 sec

Registers. Status: 01010000 Error: 00000000

Peak power consumption during spin-up: 5V line = 761.41 mA; 12V line = 1.56 mA

Integrity word of device identification data is OK.

Device identified: HGST HTS545050A7E680 SN: RBE50AM52D2U0P

Circuit board check passed

Elapsed: 8.8 sec.

2. Heads

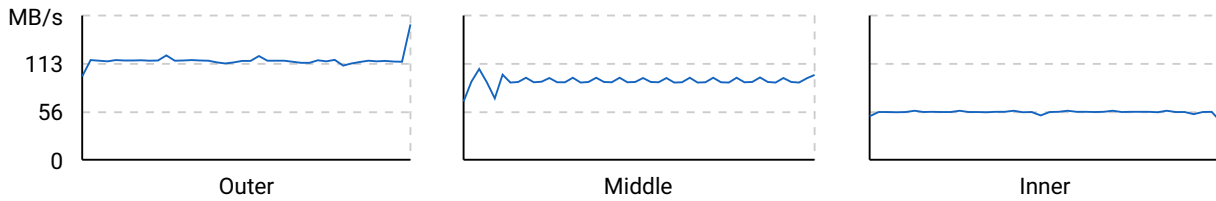
Detecting device family

Detected 2 heads: 0 1

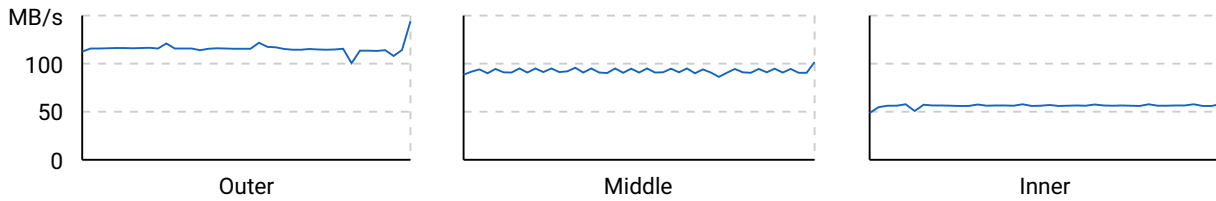
Performing media access timing verification separately for each head.

Using the following LBA ranges for this test: Outer: 0 - 647,680, Middle: 488,062,743 - 488,710,423, Inner: 976,125,487 - 976,773,167

Head #0 speed graph



Head #1 speed graph



Head #	Speed	Sectors processed	Freeze count	Read errors	Head status
0	82 MB/s	930,939	0	0	OK
1	82 MB/s	1,012,091	0	0	OK

Media access timing verification shows no damage to the head stack

Head stack check passed

Elapsed: 15.3 sec.

3. Media surface

Media scan is in progress...

Verifying starting sectors (LBA: 0 - 600,064)

0 error(s) found

Speed: 113 MB/s

Verifying middle sectors (LBA: 488,386,583 - 488,986,647)

0 error(s) found

Speed: 92 MB/s

Verifying ending sectors (LBA: 976,173,103 - 976,773,167)

0 error(s) found

Speed: 56 MB/s

Average speed: 87 MB/s

Media surface check passed

Elapsed: 11.7 sec.

4. Firmware

Device is not locked.

Device identification data is valid.

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 appears logically correct.

Performing SMART checks...

Power cycles: 1488 Smart status: Good Powered on: 201 days 21 hours

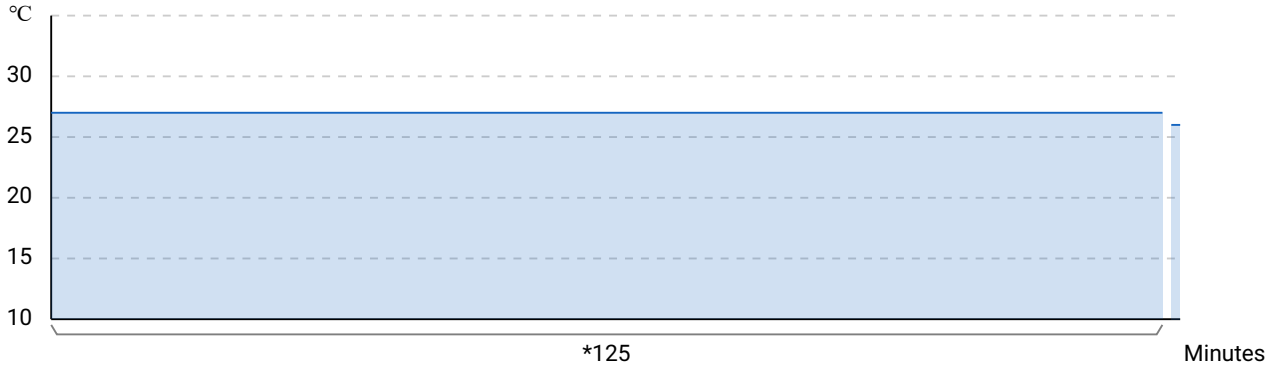
#	Attribute Name	Value	Worst	Threshold	RAW	Status
1	Read Error Rate	100	100	62	0	OK
2	Throughput Performance	100	100	0	0	OK
3	Spin-Up Time	214	214	33	60129542145	OK
4	Start/Stop Count	99	99	0	1756	OK
5	Reallocated Sectors Count	100	100	5	0	OK
7	Seek Error Rate	100	100	0	0	OK
8	Seek Time Performance	100	100	0	0	OK
9	Power-On Hours	89	89	0	4845	OK
10	Spin Retry Count	100	100	0	0	OK
12	Power Cycle Count	100	100	0	1488	OK
191	G-Sense Error Rate	100	100	0	0	OK
192	Power-off Retract Count	100	100	0	192	OK
193	Load/Unload Cycle Count	98	98	0	29176	OK
194	Temperature Celsius	253	253	0	197569544211	OK
196	Reallocation Event Count	100	100	0	0	OK
197	Current Pending Sector Count	100	100	0	0	OK
198	(Offline) Uncorrectable Sector Count	100	100	0	0	OK
199	UltraDMA CRC Error Count	200	200	0	699	OK
223	Load/Unload Retry Count	100	100	0	0	OK
240	Head Flying Hours	100	100	0	153	OK

241	Total LBAs Written	100	100	0	14013053538	OK
242	Total LBAs Read	100	100	0	10527217135	OK
254	Free Fall Protection	100	100	0	14	OK

Reading SMART temperature

Temperature and power cycle history

The diagram shows the device temperature history during the recent work time intervals between power cycles.



* Earliest available record. The exact time and duration is unspecified in SMART history.

White gaps represent the interval between temperature measurements. During these periods the temperature sensor was inoperative for periods of time due to power off or standby mode.

Last significant work time interval before power off or standby (in minutes): 125

Firmware check passed

Elapsed: 0.4 sec.

5. File system

Found partition at sector 2,048 (type NTFS). Partition size: 315 MB.

Found partition at sector 616,448 (type FAT32). Partition size: 104 MB.

Found partition of an unknown type at sector 819,200. Partition size: 134 MB

Found partition at sector 1,081,344 (type NTFS). Partition size: 127 GB.

74% of the disk is not associated with any partition.

File system structures check complete.

Elapsed: 0.3 sec.