



SPACE TO GROUND

1
00:00:04,870 --> 00:00:03,030
houston station on space to ground

2
00:00:06,550 --> 00:00:04,880
welcome to space to ground your weekly

3
00:00:08,390 --> 00:00:06,560
look at what's happening on board the

4
00:00:10,629 --> 00:00:08,400
international space station i'm dan

5
00:00:12,629 --> 00:00:10,639
hewitt scott kelly spent this week

6
00:00:14,709 --> 00:00:12,639
preparing the station for a supercharged

7
00:00:16,630 --> 00:00:14,719
boost to its air supply

8
00:00:19,029 --> 00:00:16,640
two tanks for the nitrogen oxygen

9
00:00:21,189 --> 00:00:19,039
recharge system or noise are getting

10
00:00:23,349 --> 00:00:21,199
ready to fly in the next cygnus resupply

11
00:00:25,830 --> 00:00:23,359
mission to the station weighing in at

12
00:00:29,109 --> 00:00:25,840
about 240 pounds these tanks are

13
00:00:30,710 --> 00:00:29,119

pressurized to over 6 000 psi more than

14

00:00:32,950 --> 00:00:30,720

double what you might find in scuba

15

00:00:34,389 --> 00:00:32,960

diving tanks they'll provide additional

16

00:00:36,150 --> 00:00:34,399

breathing gases for the station

17

00:00:38,150 --> 00:00:36,160

atmosphere and the pure oxygen

18

00:00:40,630 --> 00:00:38,160

astronauts breathe right before suiting

19

00:00:42,790 --> 00:00:40,640

up for a spacewalk and now we go from

20

00:00:45,830 --> 00:00:42,800

air tanks to rocket tanks this week in

21

00:00:47,750 --> 00:00:45,840

station science sphere sloshes back and

22

00:00:50,069 --> 00:00:47,760

it's helping engineers get an inside

23

00:00:50,950 --> 00:00:50,079

look at how liquid fuel moves around in

24

00:00:52,470 --> 00:00:50,960

space

25

00:00:54,150 --> 00:00:52,480

two of the bowling ball shaped

26

00:00:56,310 --> 00:00:54,160

satellites flew around the station

27

00:00:57,990 --> 00:00:56,320

strapped to a fuel tank as part of an

28

00:00:59,910 --> 00:00:58,000

investigation to improve our

29

00:01:02,310 --> 00:00:59,920

understanding of how rocket propellant

30

00:01:04,390 --> 00:01:02,320

behaves while in microgravity vital for

31

00:01:06,230 --> 00:01:04,400

improving the safety and efficiency of

32

00:01:08,149 --> 00:01:06,240

future spacecraft

33

00:01:10,149 --> 00:01:08,159

this week's question is from iceblade

34

00:01:12,390 --> 00:01:10,159

who is wondering why white specs show up

35

00:01:14,469 --> 00:01:12,400

in some of the videos from station well

36

00:01:16,070 --> 00:01:14,479

as it turns out humans aren't the only

37

00:01:18,070 --> 00:01:16,080

things that have to battle the negative

38

00:01:20,390 --> 00:01:18,080

effects of being in space

39

00:01:22,390 --> 00:01:20,400

harmful radiation is a big concern while

40

00:01:24,950 --> 00:01:22,400

exploring the cosmos and it can actually

41

00:01:26,310 --> 00:01:24,960

damage electronics the space station is

42

00:01:28,310 --> 00:01:26,320

close enough to earth to be well

43

00:01:30,469 --> 00:01:28,320

protected but things like camera sensors

44

00:01:32,390 --> 00:01:30,479

can take radiation hits this is why

45

00:01:34,710 --> 00:01:32,400

you'll sometimes see dead pixels and

46

00:01:36,469 --> 00:01:34,720

videos from the station and why we fly

47

00:01:38,469 --> 00:01:36,479

experiments like the high definition

48

00:01:41,109 --> 00:01:38,479

earth viewing payload to see how long

49

00:01:43,030 --> 00:01:41,119

cameras can last keep sending us your