

1

00:00:00,000 --> 00:00:04,000

Remember kids, don't try anything you see on this show at home.

2

00:00:04,000 --> 00:00:05,000

We're experts.

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00:00:05,000 --> 00:00:08,000

And this was like this when we got here.

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00:00:30,000 --> 00:00:37,000

On this episode of Myth Shinerz, the team gets loaded with a double shot of moonshine myth.

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00:00:37,000 --> 00:00:39,000

Okay, go ahead and fire it up.

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00:00:39,000 --> 00:00:43,000

First, could your hooch house be blown to bits?

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00:00:43,000 --> 00:00:47,000

This entire house is gonna leap five feet in the air.

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00:00:47,000 --> 00:00:53,000

By an exploding still, and could a tank of that old white lightning...

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00:00:53,000 --> 00:00:56,000

I think this thing is running on moonshine in a prayer.

10

00:00:56,000 --> 00:00:59,000

...have enough juice to run your car.

11

00:00:59,000 --> 00:01:02,000

This is what moonshine is all about.

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00:01:02,000 --> 00:01:06,000

Find out as the myth busters hit the hard stuff.

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00:01:06,000 --> 00:01:14,000

Who are the myth busters?

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00:01:14,000 --> 00:01:17,000

Adam Savage...

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00:01:17,000 --> 00:01:18,000

I got the chicken.

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00:01:18,000 --> 00:01:19,000

and Jamie Heineman.

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00:01:19,000 --> 00:01:20,000

I'm ready.

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00:01:20,000 --> 00:01:27,000

Between them more than 30 years of special effects experience, together with Grant Imahara,

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00:01:27,000 --> 00:01:40,000

Carrie Byron, and Tori Belachy, they don't just tell the myths, they put them to the

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00:01:40,000 --> 00:01:47,800

test.

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00:01:47,800 --> 00:01:57,800

Up in the Appalachian Mountains, the moonshiners battle the elements, each other, and the

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00:01:57,800 --> 00:02:04,800

law, to continue the proud tradition of moonshine.

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00:02:04,800 --> 00:02:14,800

It's a tradition steeped in legend, and where there's legend, there's the myth busters.

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00:02:14,800 --> 00:02:19,800

So, first up, Adam and Jamie are starting with a bang.

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00:02:19,800 --> 00:02:21,800

Have you ever tried moonshine, Jamie?

26

00:02:21,800 --> 00:02:23,800

Do you think I should answer that?

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00:02:23,800 --> 00:02:24,800

Probably, okay.

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00:02:24,800 --> 00:02:26,800

Well, then I probably have.

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00:02:26,800 --> 00:02:28,800

Have you ever made moonshine, though?

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00:02:28,800 --> 00:02:30,800

Do you think I should answer that?

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00:02:30,800 --> 00:02:32,800

Probably not.

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00:02:32,800 --> 00:02:34,800

Well, then I probably haven't.

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00:02:34,800 --> 00:02:38,800

But you are familiar with the idea that moonshining carries with it some dangers that it can

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00:02:38,800 --> 00:02:40,800

achieve mythical proportions.

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00:02:40,800 --> 00:02:43,800

You mean like it can burn more than your throat?

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00:02:43,800 --> 00:02:44,800

Exactly.

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00:02:44,800 --> 00:02:49,360

What we've got here is a story about a moonshiner making moonshine when something goes wrong

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00:02:49,360 --> 00:02:52,800

and blows his entire moonshining shack to smithereens.

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00:02:52,800 --> 00:02:54,800

That sounds great.

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00:02:54,800 --> 00:03:00,800

According to this legend, a moonshiner is distilling his liquor when suddenly, no more

41

00:03:00,800 --> 00:03:01,800

shack.

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00:03:01,800 --> 00:03:05,800

But could a still really blow your hut to high heaven?

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00:03:05,800 --> 00:03:08,800

How do you think the best way to tackle this story is?

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00:03:08,800 --> 00:03:12,800

Well, this story is about an exploding moonshiner shack, so we're going to have to build a shack.

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00:03:12,800 --> 00:03:13,800

Of course.

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00:03:13,800 --> 00:03:16,800

But if you're going to make moonshine, you're going to need a still.

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00:03:16,800 --> 00:03:17,800

Maybe that's where we start.

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00:03:17,800 --> 00:03:20,800

Just go downstairs, make a still, and start brewing our own alcohol.

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00:03:20,800 --> 00:03:22,800

You betcha.

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00:03:22,800 --> 00:03:26,800

Adam is testing his metal by building an authentic copper still.

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00:03:26,800 --> 00:03:30,800

It's important to really get into your...

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00:03:30,800 --> 00:03:34,800

And it's a riveting process.

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00:03:34,800 --> 00:03:36,800

What am I doing, you ask?

54

00:03:36,800 --> 00:03:38,800

I'm having fun.

55

00:03:38,800 --> 00:03:42,800

But every last joint and bolt must be carefully sealed.

56

00:03:42,800 --> 00:03:44,800

Beautiful.

57

00:03:44,800 --> 00:03:49,800

To ensure it's airtight and the moonshine vapor will have nowhere to go, but up.

58

00:03:49,800 --> 00:03:54,800

I feel like a dream.

59

00:03:54,800 --> 00:03:57,800

From there, it's the job of the condenser.

60

00:03:57,800 --> 00:04:00,800

That's the last time I make everyone slinkies for Christmas.

61

00:04:00,800 --> 00:04:04,800

To twist that vapor back into liquid hooch.

62

00:04:04,800 --> 00:04:07,800

That was easier than I thought it would be.

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00:04:07,800 --> 00:04:13,800

While Adam's scratch building his still, I've got to hold up this stainless steel milk canister,

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00:04:13,800 --> 00:04:18,800

which has been modified just for the purposes of using it as a still.

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00:04:18,800 --> 00:04:20,800

There's the heating element.

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00:04:20,800 --> 00:04:22,800

It's the same thing they use in water here.

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00:04:22,800 --> 00:04:24,800

It's perfect for this.

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00:04:24,800 --> 00:04:26,800

And there we go.

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00:04:26,800 --> 00:04:28,800

Ready to start shining.

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00:04:28,800 --> 00:04:33,800

But before they shine on, they'll need the most important ingredient, the mash.

71

00:04:33,800 --> 00:04:36,800

So this is the stuff we're going to get alcohol out of?

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00:04:36,800 --> 00:04:37,800

Absolutely.

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00:04:37,800 --> 00:04:39,800

What is it exactly?

74

00:04:39,800 --> 00:04:41,800

It's a good old fashioned corn mash.

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00:04:41,800 --> 00:04:46,800

This is predominantly about 65% corn and malted wheat, malted barley.

76

00:04:46,800 --> 00:04:49,800

Well, that's even, but it works.

77

00:04:49,800 --> 00:04:53,800

Mix those together and end up with about 10% alcohol that we can then distill out to a higher proof.

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00:04:53,800 --> 00:04:57,800

Normally when we say don't try this at home, there's a safety issue involved.

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00:04:57,800 --> 00:05:01,800

In this case, you shouldn't try this at home, but for a different reason.

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00:05:01,800 --> 00:05:04,800

It's illegal to distill on your own.

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00:05:04,800 --> 00:05:07,800

So we went ahead and did it right. We got a permit.

82

00:05:07,800 --> 00:05:09,800

That's what you need to be able to do this.

83

00:05:09,800 --> 00:05:12,800

Wow, it's actually working.

84

00:05:12,800 --> 00:05:14,800

Yeah, looks like we got something.

85

00:05:16,800 --> 00:05:18,800

It tastes dangerous.

86

00:05:18,800 --> 00:05:19,800

That's high proof.

87

00:05:19,800 --> 00:05:20,800

Yeah, that is high proof.

88

00:05:20,800 --> 00:05:24,800

We should grab a hydrometer, give it a test, see what we're coming out at.

89

00:05:24,800 --> 00:05:26,800

I thought it was going to be a drip, drip, drip.

90

00:05:26,800 --> 00:05:28,800

That's a faucet.

91

00:05:28,800 --> 00:05:30,800

Looks like we got about 156 proof.

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00:05:30,800 --> 00:05:35,800

We now have a couple of working alcohol distillation machines.

93

00:05:35,800 --> 00:05:40,800

Now it's time for us to go out into the field and see how these working stills can fail.

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00:05:52,800 --> 00:05:57,800

Next, Carrie, Tori and Grand are fueling up for a moonshine run.

95

00:05:57,800 --> 00:06:01,800

I'm really excited about this whole moonshiner's crossover episode. What are we testing?

96

00:06:01,800 --> 00:06:03,800

Well, we've got a myth that's really common.

97

00:06:03,800 --> 00:06:07,800

I mean, it's been on Back to the Future, Lawless, Dukes of Hazard.

98

00:06:07,800 --> 00:06:11,800

And that is, you can run a car on nothing but moonshine without any modifications,

99

00:06:11,800 --> 00:06:13,800

and it'll be totally fine.

100

00:06:13,800 --> 00:06:17,800

Well, this gives a whole new meaning to driving under the influence, which is illegal.

101

00:06:17,800 --> 00:06:20,800

But I guess they're moonshiner, so it'll care.

102

00:06:20,800 --> 00:06:21,800

Contact.

103

00:06:21,800 --> 00:06:25,800

There's a reason the moonshiders call their stuff white lightning.

104

00:06:25,800 --> 00:06:27,800

That's some fine sipping liquor.

105

00:06:27,800 --> 00:06:29,800

Man, you can really get a car on that.

106

00:06:29,800 --> 00:06:34,800

But could you really run your ride on that old mountain dew?

107

00:06:34,800 --> 00:06:37,800

Alright, so I get the concept. Can an unmodified car run on moonshine?

108

00:06:37,800 --> 00:06:39,800

But it's a little vague, right?

109

00:06:39,800 --> 00:06:44,800

True. I mean, they don't say what kind of car, what kind of moonshine, or even the definition of run.

110

00:06:44,800 --> 00:06:46,800

Alright, well, why don't we start off simple.

111

00:06:46,800 --> 00:06:48,800

Let's get three different cars from three different decades.

112

00:06:48,800 --> 00:06:52,800

We'll get a carbureted one, a fuel-injected one, and a brand new car.

113

00:06:52,800 --> 00:06:57,800

We'll fill it up with the most typical type of moonshine, and see if the cars even drive.

114

00:06:57,800 --> 00:07:01,800

Okay, so it's not just one for the road, it's three.

115

00:07:01,800 --> 00:07:09,800

All the cars are the same make and model, but grants flashing back to the 90s, and Tories grooving in the 70s.

116

00:07:09,800 --> 00:07:11,800

You guys ready to party?

117

00:07:11,800 --> 00:07:13,800

Woof!

118

00:07:14,800 --> 00:07:16,800

So this is our course for today's experiment.

119

00:07:16,800 --> 00:07:20,800

It's designed to put our cars to the test in various ways.

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00:07:22,800 --> 00:07:29,800

Including starting from a stop, acceleration, precision maneuvering, and three-point turns.

121

00:07:29,800 --> 00:07:37,800

Now we're going to put moonshine in, and assuming they start, we'll put each vehicle through three laps and score them.

122

00:07:37,800 --> 00:07:43,800

And based on that, we'll find out which era vehicle, if any, performs the best on moonshine.

123

00:07:43,800 --> 00:07:46,800

What I have here is traditional moonshine.

124

00:07:46,800 --> 00:07:48,800

Now this is what we're going to be using to fuel our cars.

125

00:07:48,800 --> 00:07:54,800

Now this particular moonshine is about 192 proof, which means it's about 96% ethanol.

126

00:07:54,800 --> 00:07:56,800

That goes down smooth!

127

00:07:56,800 --> 00:08:00,800

Now ethanol is the fuel that race cars use, so there is a chance that this could work.

128

00:08:00,800 --> 00:08:03,800

However, our cars are far from race cars.

129

00:08:03,800 --> 00:08:05,800

They're not tuned up for this kind of fuel.

130

00:08:05,800 --> 00:08:07,800

So is this going to be an effective fuel?

131

00:08:07,800 --> 00:08:09,800

We're about to find out.

132

00:08:12,800 --> 00:08:16,800

First to cruise on the booze, it's Tories 70s car.

133

00:08:16,800 --> 00:08:20,800

I'm driving a 73 vehicle, which by the way has a carburetor.

134

00:08:20,800 --> 00:08:25,800

Now a carburetor's job is to mix the fuel and the air together so that the engine runs smoothly.

135

00:08:25,800 --> 00:08:32,800

Now if there's not enough fuel and too much air, the vehicle is going to be running lean, which means it might not run at all.

136

00:08:32,800 --> 00:08:38,800

Here we go. This is moonshine in a carbureted car in three, two, one.

137

00:08:39,800 --> 00:08:45,800

Oh my god! Here we go!

138

00:08:45,800 --> 00:08:48,800

Yeah!

139

00:08:48,800 --> 00:08:49,800

All right.

140

00:08:49,800 --> 00:08:55,800

I think this thing is running on moonshine in a prayer.

141

00:08:55,800 --> 00:08:57,800

I think it's just running on a prayer at this moment.

142

00:08:59,800 --> 00:09:02,800

Is that stalled? I think it's stalled.

143

00:09:02,800 --> 00:09:04,800

Oh!

144

00:09:04,800 --> 00:09:05,800

It's stalled.

145

00:09:05,800 --> 00:09:07,800

Oh! It's stalled again.

146

00:09:07,800 --> 00:09:12,800

I'm not getting away from any cop if I'm driving that car on the moonshine.

147

00:09:12,800 --> 00:09:15,800

So after less than one complete lap...

148

00:09:15,800 --> 00:09:21,800

Man! Moonshine in a carbureted car? Not the best gas.

149

00:09:21,800 --> 00:09:26,800

It's clear the carburetor can't handle the 4% water in the hooch.

150

00:09:29,800 --> 00:09:31,800

Three, two, one.

151

00:09:35,800 --> 00:09:36,800

That was a good start.

152

00:09:36,800 --> 00:09:41,800

But could a different way of dispersing fuel give the 90s car the edge?

153

00:09:41,800 --> 00:09:51,800

Now these 90s era cars are fuel injected, which means that the fuel is pumped through a tiny nozzle at high pressure, and that atomizes the gas immediately.

154

00:09:51,800 --> 00:09:53,800

All right, here comes acceleration test.

155

00:09:57,800 --> 00:10:01,800

No worries. That's one lap down.

156

00:10:01,800 --> 00:10:03,800

I'm going to run moonshine than I would.

157

00:10:03,800 --> 00:10:05,800

Two to go!

158

00:10:05,800 --> 00:10:06,800

Whoa!

159

00:10:06,800 --> 00:10:09,800

Almost feeling like it might die.

160

00:10:09,800 --> 00:10:11,800

Trouble with the idle?

161

00:10:11,800 --> 00:10:12,800

This is not good.

162

00:10:12,800 --> 00:10:13,800

Come on.

163

00:10:13,800 --> 00:10:15,800

Oh, whoa!

164

00:10:15,800 --> 00:10:19,800

Oh, I hear a bit of stuttering in the engine.

165

00:10:19,800 --> 00:10:22,800

They seem to be losing a little bit of acceleration.

166

00:10:22,800 --> 00:10:28,800

Yep, it seems the moonshine isn't compatible with the fuel injected 90s car.

167

00:10:28,800 --> 00:10:34,800

At first it was going really, really well, but as the test went on it started to hesitate from a stop.

168

00:10:34,800 --> 00:10:37,800

It was jerking while it was idling. We had a loss of power.

169

00:10:39,800 --> 00:10:47,800

So although the 70s car and the 90s car struggled with the white whiskey, will the modern car have a taste for moonshine?

170

00:10:47,800 --> 00:10:49,800

That clears your sinuses.

171

00:10:49,800 --> 00:10:52,800

All right, so I'm driving the 2013 car.

172

00:10:52,800 --> 00:10:55,800

I'm sort of glass half full and half empty on this one.

173

00:10:55,800 --> 00:11:03,800

I mean, it's a new car, so it's not flex fuel, but it does have a sophisticated computer that might be able to recognize an alternative fuel.

174

00:11:03,800 --> 00:11:08,800

But moonshine being ethanol burns a lot hotter than gasoline.

175

00:11:08,800 --> 00:11:10,800

It might just burn out the engine altogether.

176

00:11:12,800 --> 00:11:15,800

In three, two, one.

177

00:11:18,800 --> 00:11:20,800

It's not starting.

178

00:11:20,800 --> 00:11:21,800

Come on, give me a second.

179

00:11:21,800 --> 00:11:22,800

Yes!

180

00:11:22,800 --> 00:11:23,800

Okay, it's started.

181

00:11:23,800 --> 00:11:24,800

Here we go, jump in.

182

00:11:24,800 --> 00:11:25,800

Good luck.

183

00:11:25,800 --> 00:11:31,800

Although it was slow to start, the 2013 is off and most definitely running.

184

00:11:31,800 --> 00:11:35,800

It feels a little off, but not in a bad way.

185

00:11:35,800 --> 00:11:40,800

So far I don't hear any clunking, like, you know, when you have the wrong kind of feel in there.

186

00:11:40,800 --> 00:11:43,800

This car's taking it all in stride.

187

00:11:43,800 --> 00:11:49,800

I can't believe this is not actually bad. I'm shocked.

188

00:11:49,800 --> 00:11:58,800

So after completing three almost perfect laps, it's clear the unmodified modern car and its computer can handle the hard stuff.

189

00:11:58,800 --> 00:12:01,800

So this one's confirmed you can run a car on moonshine.

190

00:12:01,800 --> 00:12:03,800

That is so bizarre.

191

00:12:04,800 --> 00:12:05,800

Later.

192

00:12:05,800 --> 00:12:06,800

You're going down, sucker.

193

00:12:07,800 --> 00:12:11,800

But first, are we inadvertently testing a watch button ever boils?

194

00:12:11,800 --> 00:12:14,800

You know, I was going to say the same thing.

195

00:12:20,800 --> 00:12:28,800

Because they spend their lives on the wrong side of the law, moonshiders are always on the lookout for trouble.

196

00:12:30,800 --> 00:12:36,800

And when it comes to trouble, a boiler full of flammable vapor is top of the list.

197

00:12:36,800 --> 00:12:41,800

But could it still really explode and take a shack down with it?

198

00:12:43,800 --> 00:12:44,800

Feeling like making some alcohol?

199

00:12:44,800 --> 00:12:46,800

And blowing some stuff up.

200

00:12:46,800 --> 00:12:47,800

Yeah, let's fire up the boiler.

201

00:12:48,800 --> 00:12:51,800

Well, first, they've got to build their still house.

202

00:12:51,800 --> 00:12:53,800

That's a floor. Let's screw it down.

203

00:12:53,800 --> 00:12:54,800

Yeah.

204

00:12:54,800 --> 00:12:58,800

It's a quick and dirty shack that's got three walls in no time.

205

00:12:58,800 --> 00:13:00,800

There it is.

206

00:13:00,800 --> 00:13:05,800

And a clear fourth wall to ensure they get their boom with a view.

207

00:13:05,800 --> 00:13:06,800

Everything's really clear.

208

00:13:06,800 --> 00:13:08,800

So now to bring in the still.

209

00:13:08,800 --> 00:13:14,800

If this is a story about an exploding still, what is it exactly that is supposed to make the still explode?

210

00:13:14,800 --> 00:13:22,800

Well, as the mash burns and alcohol is produced, particulate matter can actually build up inside this thing and cause a clog.

211

00:13:22,800 --> 00:13:29,800

Now, when that clog happens, all of a sudden you end up with alcohol, with no outlet, and that makes it become a pressure vessel.

212

00:13:29,800 --> 00:13:32,800

And we all know what happens on Mythbusters when a pressure vessel fails.

213

00:13:36,800 --> 00:13:39,800

How am I going to induce that clog in the still?

214

00:13:39,800 --> 00:13:44,800

With this, a simple half inch copper cap soldered to the only outlet for the alcohol.

215

00:13:44,800 --> 00:13:46,800

That is perfect.

216

00:13:46,800 --> 00:13:50,800

Now, once we've eliminated its outlet and start to heat it up, it will find its own way out.

217

00:13:50,800 --> 00:13:55,800

The question we're going to answer with that experiment is, how bad will it be?

218

00:13:55,800 --> 00:14:00,800

So for their worst case scenario still failure, they've deliberately blocked the outlet.

219

00:14:00,800 --> 00:14:05,800

Because we're looking for the worst case scenario, I'm using 200 proof alcohol.

220

00:14:05,800 --> 00:14:07,800

That is pure alcohol.

221

00:14:07,800 --> 00:14:09,800

We are ready to go.

222

00:14:09,800 --> 00:14:16,800

Distilling from pure alcohol means more vapors and should mean more pressure for the still.

223

00:14:16,800 --> 00:14:21,800

Everything looks good. Temperature is rising steadily. It's at 100.

224

00:14:21,800 --> 00:14:22,800

Excellent.

225

00:14:22,800 --> 00:14:25,800

Let the pressure begin.

226

00:14:25,800 --> 00:14:30,800

With no outlet, the pressure inside the still builds and so does the heat.

227

00:14:30,800 --> 00:14:32,800

The temperature is climbing like a rocket.

228

00:14:32,800 --> 00:14:39,800

Add as the temperature within the still skyrockets to 500 degrees, the room starts to cook.

229

00:14:39,800 --> 00:14:43,800

That's enough heat to auto ignite all the wood in there, if it had air.

230

00:14:43,800 --> 00:14:47,800

So my question is, is it enough to make the vessel fail?

231

00:14:47,800 --> 00:14:49,800

That's what I'm hoping.

232

00:14:49,800 --> 00:14:52,800

Smoke coming out the top.

233

00:14:52,800 --> 00:14:54,800

Smoke off the top.

234

00:14:54,800 --> 00:14:55,800

No signal.

235

00:14:55,800 --> 00:14:57,800

Oh, we just saw a signal in the camera.

236

00:14:57,800 --> 00:15:00,800

That means it got crazy, crazy, crazy hot in there.

237

00:15:00,800 --> 00:15:02,800

Yeah.

238

00:15:04,800 --> 00:15:10,800

After 30 minutes of their worst case scenario still, no room boom.

239

00:15:10,800 --> 00:15:13,800

But there is fire in the hole.

240

00:15:13,800 --> 00:15:19,800

I see flame coming out all over the place now.

241

00:15:19,800 --> 00:15:26,800

I'm starting to suspect that somewhere in the piping, leaving out of my still, there's a failure.

242

00:15:26,800 --> 00:15:34,800

I might not get a failure of the actual vessel because it's just leaking consistently in that space and feeding this fire.

243

00:15:34,800 --> 00:15:36,800

Should we think about putting it out?

244

00:15:36,800 --> 00:15:40,800

I think so. I don't think there are any big build-ups of fumes in there.

245

00:15:40,800 --> 00:15:42,800

No, I'm going to put on the fire suit.

246

00:15:44,800 --> 00:15:46,800

Adam is quick to hose down the wreckage.

247

00:15:46,800 --> 00:15:51,800

The bottom is well-enabled and burned. There's nothing salvage going there. The still is totally destroyed.

248

00:15:51,800 --> 00:15:52,800

Okay.

249

00:15:52,800 --> 00:15:57,800

But it's the lack of an explosion that really put the damper on this myth.

250

00:15:57,800 --> 00:16:03,800

Nothing that we predicted or expected to happen happened as we thought it might.

251

00:16:03,800 --> 00:16:08,800

Open flames started working beautifully. We were getting some nice high temperatures on my still.

252

00:16:08,800 --> 00:16:15,800

But instead of acting like a pressure vessel that fails catastrophically, once it got up to heat, it seemed to fail.

253

00:16:15,800 --> 00:16:17,800

What's the opposite of catastrophic?

254

00:16:17,800 --> 00:16:24,800

Leconically, laxidasically, don't get me wrong. If you came upon this and this was your shack and you came upon it the next morning,

255

00:16:24,800 --> 00:16:30,800

you'd be like, hey, my shack flew up. But I'm here to tell you, there's no explosion there.

256

00:16:30,800 --> 00:16:31,800

No explosion.

257

00:16:31,800 --> 00:16:36,800

No, it's so sad, but that was just one scenario and there are others.

258

00:16:36,800 --> 00:16:37,800

It's true there are.

259

00:16:37,800 --> 00:16:38,800

Shall we set one up?

260

00:16:38,800 --> 00:16:39,800

Let's do it.

261

00:16:40,800 --> 00:16:47,800

There's no doubt that moonshine can be very strong stuff.

262

00:16:47,800 --> 00:16:50,800

All right, here we go. We got some moonshine going.

263

00:16:50,800 --> 00:16:54,800

And it even looks like you can run a car on it.

264

00:16:54,800 --> 00:17:00,800

So we put moonshine in a car and it ran. That's myth confirmed, right?

265

00:17:00,800 --> 00:17:01,800

Not as far as I'm concerned.

266

00:17:01,800 --> 00:17:05,800

I've always heard the myth that a car running on moonshine will outrun a car running on gas.

267

00:17:05,800 --> 00:17:07,800

That the moonshine will outperform gasoline.

268

00:17:07,800 --> 00:17:09,800

I mean, that's how they portray it in the movies, right?

269

00:17:09,800 --> 00:17:12,800

All right, why don't we continue our test with our best performing car?

270

00:17:12,800 --> 00:17:14,800

Let's also mess with the formulations for the moonshine.

271

00:17:14,800 --> 00:17:20,800

Find the best proof to run in the car. Put it head to head against a gas-fueled vehicle and do sort of a comparison.

272

00:17:20,800 --> 00:17:21,800

A moonshine run.

273

00:17:21,800 --> 00:17:22,800

A moonshine showdown.

274

00:17:22,800 --> 00:17:23,800

I like it.

275

00:17:26,800 --> 00:17:29,800

And with a burden of three kinds of proof on board.

276

00:17:29,800 --> 00:17:31,800

You got the hooch.

277

00:17:31,800 --> 00:17:35,800

It's time to see which liquor is quicker.

278

00:17:35,800 --> 00:17:40,800

St. George's Distillery has been kind enough to make us a full range of different proof moonshine for our experiment today.

279

00:17:40,800 --> 00:17:46,800

We have 150, 170 and 192, which we've been using in our previous experiment.

280

00:17:46,800 --> 00:17:48,800

So here's how this test is going to go.

281

00:17:48,800 --> 00:17:50,800

We're going to start here at the start line.

282

00:17:50,800 --> 00:17:54,800

And I'm going to stomp in the gas as soon as Tori says, go for it.

283

00:17:54,800 --> 00:17:59,800

Well, Tom, how long it takes to get up to 60 miles an hour?

284

00:18:00,800 --> 00:18:03,800

When I get there, I'll say, stop.

285

00:18:03,800 --> 00:18:06,800

Time, 6.9 seconds.

286

00:18:06,800 --> 00:18:10,800

We're going to average that three times in a row for each proof.

287

00:18:10,800 --> 00:18:13,800

The proof that has the fastest time is the winner.

288

00:18:13,800 --> 00:18:19,800

So first the car is drained of gas and then liquored up with the 151 proof.

289

00:18:19,800 --> 00:18:24,800

Come on, Bobby Joe. The cops are on the tails. We've got to get out of here.

290

00:18:24,800 --> 00:18:27,800

In three, two, one, go.

291

00:18:30,800 --> 00:18:33,800

We're having technical difficulties.

292

00:18:33,800 --> 00:18:34,800

Go.

293

00:18:37,800 --> 00:18:39,800

All right, here we go.

294

00:18:43,800 --> 00:18:45,800

It doesn't like it.

295

00:18:45,800 --> 00:18:49,800

It seems the 151 is literally a non-starter.

296

00:18:49,800 --> 00:18:52,800

We've got to get to the still before the police show up.

297

00:18:52,800 --> 00:18:58,800

And despite an attempted bump start, it's all systems, no.

298

00:18:58,800 --> 00:19:00,800

I don't think this is how the Moon Shiners do it.

299

00:19:00,800 --> 00:19:03,800

All right, I think we should just call it.

300

00:19:03,800 --> 00:19:06,800

I don't have the energy to continue this test.

301

00:19:06,800 --> 00:19:09,800

There's no way we're ever getting up to 60 or even five.

302

00:19:09,800 --> 00:19:12,800

Sorry, I couldn't push that fast.

303

00:19:12,800 --> 00:19:19,800

Next, they raise the bar, draining the 151 and refueling with the 170 proof.

304

00:19:19,800 --> 00:19:23,800

But will this white lightning be lightning fast?

305

00:19:23,800 --> 00:19:24,800

Go.

306

00:19:24,800 --> 00:19:27,800

Well, it's a little sluggish off the line.

307

00:19:29,800 --> 00:19:33,800

19 and a half seconds, 22 seconds,

308

00:19:33,800 --> 00:19:39,800

16.7 seconds to get up to 60 miles an hour on 170 proof.

309

00:19:39,800 --> 00:19:40,800

Excellent.

310

00:19:40,800 --> 00:19:45,800

With an average of 19.4, there's still room for improvement.

311

00:19:45,800 --> 00:19:50,800

So can the 96% ethanol, 192 proof, power to victory?

312

00:19:50,800 --> 00:19:52,800

I'm not driving.

313

00:19:52,800 --> 00:20:01,800

Okay, guys, this is Moon Shin, run zero to 60 tests with 192 proof in three, two, one, go!

314

00:20:01,800 --> 00:20:02,800

Go, go!

315

00:20:05,800 --> 00:20:14,800

9.65 seconds, 8.94 seconds, 9.78 seconds to get up to 60 miles an hour.

316

00:20:14,800 --> 00:20:19,800

And clearly off the line, the 192 is the quicker liquor.

317

00:20:20,800 --> 00:20:24,800

So it turns out 192 proof moonshine works best in our vehicle.

318

00:20:24,800 --> 00:20:27,800

Now that we have our moonshine and we have our best vehicle,

319

00:20:27,800 --> 00:20:30,800

it's time to put it up against gasoline.

320

00:20:37,800 --> 00:20:40,800

It's the Mythbusters moonshine happy hour.

321

00:20:40,800 --> 00:20:44,800

And there's still more thrills and spills to come.

322

00:20:45,800 --> 00:20:47,800

That totally didn't work out like I was hoping.

323

00:20:47,800 --> 00:20:51,800

My stills failure mode was less catastrophic and more, shall we say,

324

00:20:51,800 --> 00:20:53,800

melty than I was hoping for.

325

00:20:53,800 --> 00:20:57,800

Yeah, you still got a slow leak that was feeding the fire underneath.

326

00:20:57,800 --> 00:21:00,800

Mine didn't have that problem. It had an internal electric heating element.

327

00:21:00,800 --> 00:21:07,800

Right. So in theory, you still could keep on leaking and there's no ready ignition source to take care of that gas.

328

00:21:07,800 --> 00:21:12,800

Well, yeah, and then the fumes would just keep building up until you had the perfect explosive fuel air mix.

329

00:21:12,800 --> 00:21:19,800

And then if you get like a short circuit or a spark or a moonshiner lighting a cigarette, boom.

330

00:21:21,800 --> 00:21:23,800

It's an altogether different kind of failure.

331

00:21:23,800 --> 00:21:28,800

But historically, igniting rooms full of flammable gas,

332

00:21:28,800 --> 00:21:33,800

did my missing an eyebrow, is a lot harder than you'd think.

333

00:21:34,800 --> 00:21:40,800

See, the problem is that the worst thing that can happen when you have a chamber full of flammable gas and air is nothing.

334

00:21:41,800 --> 00:21:44,800

If it doesn't ignite, nobody wants to go near that thing.

335

00:21:44,800 --> 00:21:46,800

It's a dangerous thing.

336

00:21:46,800 --> 00:21:55,800

So we must get ignition and I'm going to troubleshoot our ignition source here in the shop before we head out to the field and put all our eggs in one basket or a shack.

337

00:21:55,800 --> 00:21:58,800

It's not pretty, but it'll work, I promise.

338

00:21:58,800 --> 00:22:00,800

So the setup is pretty straightforward.

339

00:22:00,800 --> 00:22:03,800

First, we need to shack for the experiment to happen in and that's done.

340

00:22:03,800 --> 00:22:04,800

Then we need some alcohol.

341

00:22:05,800 --> 00:22:06,800

Here's some I prepared earlier.

342

00:22:06,800 --> 00:22:09,800

No, seriously, this is my alcohol from the earlier distillation.

343

00:22:09,800 --> 00:22:15,800

Then we need a way to turn that alcohol from a liquid into a gas and that's with a hot plate and a pan.

344

00:22:15,800 --> 00:22:22,800

Then we need a way to ignite that and that is with our handy 15,000 volt neon transformer.

345

00:22:22,800 --> 00:22:24,800

I'm going to put the two contacts in there.

346

00:22:24,800 --> 00:22:29,800

They'll create a nice spark and hopefully that'll give us the guaranteed pop rope and form.

347

00:22:29,800 --> 00:22:30,800

Now we wait.

348

00:22:30,800 --> 00:22:31,800

Now we wait.

349

00:22:31,800 --> 00:22:38,800

With all eyes on the proof of concept shack, it's not long until the alcohol vapor starts to fog.

350

00:22:38,800 --> 00:22:39,800

I'm seeing vapor.

351

00:22:39,800 --> 00:22:41,800

Yeah, me too.

352

00:22:41,800 --> 00:22:44,800

So it's time to flick the ignition switch.

353

00:22:44,800 --> 00:22:48,800

Minutri shack in three, two, one.

354

00:22:52,800 --> 00:22:53,800

Nothing.

355

00:22:53,800 --> 00:22:54,800

Nothing.

356

00:22:54,800 --> 00:22:55,800

I can see the spark from here.

357

00:22:55,800 --> 00:22:56,800

Yeah.

358

00:22:58,800 --> 00:22:59,800

Nothing.

359

00:22:59,800 --> 00:23:01,800

I'm sure nothing has happened.

360

00:23:01,800 --> 00:23:03,800

Let's leave everything unplugged.

361

00:23:03,800 --> 00:23:06,800

Wait 10 minutes and then go and clear the area.

362

00:23:06,800 --> 00:23:07,800

Okay.

363

00:23:07,800 --> 00:23:13,800

10 minutes later and the ethanol vapor has cleared, but shouldn't it have been easier to ignite?

364

00:23:13,800 --> 00:23:19,800

It seems like the alcohol vapor is settling to the bottom and it's ending up being really striated.

365

00:23:19,800 --> 00:23:21,800

How are we going to guarantee ignition in this thing?

366

00:23:21,800 --> 00:23:28,800

Well, we've had a lot of luck before by igniting some sort of a larger thing like a paper towel or whatever.

367

00:23:28,800 --> 00:23:30,800

I'm getting a flame going on in there.

368

00:23:30,800 --> 00:23:32,800

So with the addition of a rag,

369

00:23:32,800 --> 00:23:34,800

Second time's a charm.

370

00:23:34,800 --> 00:23:38,800

The vapor should ignite this time around.

371

00:23:38,800 --> 00:23:40,800

Yeah, I see mist coming down.

372

00:23:40,800 --> 00:23:43,800

It looks like it's building up in the bottom of the container.

373

00:23:43,800 --> 00:23:44,800

Oh, look at that.

374

00:23:44,800 --> 00:23:46,800

It totally is getting foggy down there.

375

00:23:46,800 --> 00:23:49,800

I think we should turn off the burner and set it off.

376

00:23:49,800 --> 00:23:50,800

All right.

377

00:23:50,800 --> 00:23:51,800

All right.

378

00:23:51,800 --> 00:23:52,800

Here we go.

379

00:23:52,800 --> 00:23:53,800

Spark test.

380

00:23:53,800 --> 00:23:55,800

A little bit of fire.

381

00:23:55,800 --> 00:23:57,800

Three, two, one.

382

00:23:57,800 --> 00:23:59,800

Three, one.

383

00:24:03,800 --> 00:24:08,800

The rag put the torch to the ethanol, exploding the shaft just as they hoped it would.

384

00:24:08,800 --> 00:24:13,800

And it's clear those alcohol fumes sure are dangerous.

385

00:24:13,800 --> 00:24:16,800

Oh, I got a little bit of fire going on.

386

00:24:18,800 --> 00:24:19,800

All right.

387

00:24:19,800 --> 00:24:21,800

Now I was going to try and hold it closed.

388

00:24:21,800 --> 00:24:23,800

Oh, I see what you're doing.

389

00:24:23,800 --> 00:24:24,800

Okay.

390

00:24:24,800 --> 00:24:26,800

The first one was CO₂.

391

00:24:29,800 --> 00:24:31,800

That's not CO₂, I guess.

392

00:24:31,800 --> 00:24:33,800

But it did the trick.

393

00:24:33,800 --> 00:24:35,800

It certainly did.

394

00:24:35,800 --> 00:24:37,800

I'm going to go on and limb and say,

395

00:24:37,800 --> 00:24:41,800

I think that's an incredibly effective ignition method and let's go with it.

396

00:24:41,800 --> 00:24:42,800

Works for me.

397

00:24:44,800 --> 00:24:48,800

There's no doubt that if you brew it just right,

398

00:24:48,800 --> 00:24:50,800

Finally, good liquor, man.

399

00:24:50,800 --> 00:24:52,800

You can run your car on moonshine.

400

00:24:53,800 --> 00:24:54,800

It's not it.

401

00:24:54,800 --> 00:24:56,800

Provided you have the right car.

402

00:24:56,800 --> 00:24:58,800

This car is taking it all in stride.

403

00:24:58,800 --> 00:25:00,800

And the right moonshine.

404

00:25:00,800 --> 00:25:04,800

But could white whiskey ever outgun gas?

405

00:25:04,800 --> 00:25:07,800

You ready for some new awesome memories of this track?

406

00:25:07,800 --> 00:25:09,800

I'm ready to do some racing.

407

00:25:09,800 --> 00:25:13,800

So for our moonshine fuel face off, we've come out to the Petaluma Speedway.

408

00:25:13,800 --> 00:25:16,800

We're going to test both speed and performance.

409

00:25:16,800 --> 00:25:17,800

We have a course set up.

410

00:25:17,800 --> 00:25:19,800

We have two identical cars.

411

00:25:19,800 --> 00:25:22,800

They're both brand new 2013 cars.

412

00:25:22,800 --> 00:25:24,800

The only difference is one is filled with moonshine,

413

00:25:24,800 --> 00:25:26,800

one is filled with gasoline.

414

00:25:26,800 --> 00:25:30,800

We're going to have Tori run the course three times in the gasoline vehicles,

415

00:25:30,800 --> 00:25:32,800

three times in the moonshine vehicles,

416

00:25:32,800 --> 00:25:36,800

and whichever fuel has the fastest time wins.

417

00:25:36,800 --> 00:25:40,800

Now personally, I think the moonshine has got a chance.

418

00:25:40,800 --> 00:25:42,800

Well, that's the come.

419

00:25:42,800 --> 00:25:45,800

First Tori setting the pace with regular old gasoline.

420

00:25:45,800 --> 00:25:48,800

In three, two, one, begin.

421

00:25:50,800 --> 00:25:55,800

And he's off to a wheel spinning start.

422

00:25:55,800 --> 00:25:59,800

Tori's top speed attempt has him drifting on the dirt.

423

00:25:59,800 --> 00:26:02,800

Yeah, well done.

424

00:26:02,800 --> 00:26:05,800

Sharp turn, get inside, waste to the inside.

425

00:26:08,800 --> 00:26:12,800

Tori's got his foot to the floor, but with this kind of track,

426

00:26:12,800 --> 00:26:15,800

that means he's not getting much traction.

427

00:26:15,800 --> 00:26:20,800

The gasoline car was performing so well that as soon as you hit the accelerator,

428

00:26:20,800 --> 00:26:21,800

the wheels are spinning.

429

00:26:21,800 --> 00:26:24,800

That was a nice recovery on that fishtail.

430

00:26:24,800 --> 00:26:28,800

So I was constantly having to readjust the steering to stay on track

431

00:26:28,800 --> 00:26:32,800

so I didn't spin out, and then I kept my speed up so that I get the best time.

432

00:26:35,800 --> 00:26:37,800

Woo! Come on in!

433

00:26:37,800 --> 00:26:42,800

The gasoline car takes the checkered flag at two minutes and 26 seconds.

434

00:26:42,800 --> 00:26:45,800

All right, let's move on to the moonshine car and see how that one performs.

435

00:26:45,800 --> 00:26:50,800

Now, gas versus moonshine, I don't think moonshine's going to handle this track very well.

436

00:26:50,800 --> 00:26:54,800

Going from slow to fast quickly is not one of its strong points as I've seen so far.

437

00:26:54,800 --> 00:26:57,800

I think gas is definitely going to rule it here.

438

00:26:57,800 --> 00:27:02,800

Okay, here goes moonshine run. In three, two, one, go!

439

00:27:05,800 --> 00:27:10,800

It's all down to Tori, but can the rocket fuel outperform the gas?

440

00:27:11,800 --> 00:27:14,800

Woo! Look at that fishtail! Nice!

441

00:27:15,800 --> 00:27:22,800

To confirm this myth, the moonshine car has to complete three laps in less than two minutes, 26 seconds.

442

00:27:22,800 --> 00:27:27,800

Now, we saw a little hesitation on the 0-60 test, but out here on the track...

443

00:27:29,800 --> 00:27:30,800

Oh my God!

444

00:27:30,800 --> 00:27:33,800

I'm not feeling any hesitation whatsoever.

445

00:27:35,800 --> 00:27:37,800

I feel like there's too much power!

446

00:27:37,800 --> 00:27:45,800

Yep, it seems as though the slower acceleration of the moonshine has the wheels taking the dirt track in their stride and gaining on the gasoline.

447

00:27:46,800 --> 00:27:50,800

God, I wonder if it's handling any different from the Inzags. From here, it looks fine.

448

00:27:50,800 --> 00:27:51,800

Woohoo!

449

00:27:54,800 --> 00:27:57,800

This moonshine is giving me a lot more get-up and go.

450

00:27:57,800 --> 00:28:01,800

We might be on to something here, man. Maybe this is true.

451

00:28:01,800 --> 00:28:04,800

This could be a tie. This could be it.

452

00:28:04,800 --> 00:28:06,800

Wow, look at the beat of Tori!

453

00:28:07,800 --> 00:28:08,800

Here we go!

454

00:28:10,800 --> 00:28:12,800

Woo! Alright, what's that on the clock?

455

00:28:13,800 --> 00:28:14,800

Oh my God, that's amazing!

456

00:28:15,800 --> 00:28:16,800

What was our time?

457

00:28:16,800 --> 00:28:18,800

You beat it by two seconds!

458

00:28:19,800 --> 00:28:20,800

Wait, we actually beat our time?

459

00:28:20,800 --> 00:28:22,800

Yeah, you did!

460

00:28:22,800 --> 00:28:25,800

Dude, that's amazing! That's insane!

461

00:28:26,800 --> 00:28:31,800

Amazingly, the moonshine outgunned the gas, but that's still not a definitive result for Kari.

462

00:28:32,800 --> 00:28:39,800

Moonshine has done amazingly well, far beyond what I expected for both the speed and for performance.

463

00:28:39,800 --> 00:28:44,800

But what I'd really like to see, what I really think is going to give moonshine a test, is longevity.

464

00:28:44,800 --> 00:28:48,800

I want to see a long moonshine run. I mean, moonshiners are doing something illegal.

465

00:28:48,800 --> 00:28:51,800

They're not just going to pull over when the cops ask them, they're going to keep going.

466

00:28:51,800 --> 00:28:54,800

They need to outrun them. This is a run-and-gun situation.

467

00:28:54,800 --> 00:28:59,800

I want to see if moonshine can stand up to a real moonshine run, winning a car.

468

00:29:00,800 --> 00:29:03,800

Yup, coming up, the law catches up with our moonshiner.

469

00:29:03,800 --> 00:29:04,800

Moonshiners!

470

00:29:04,800 --> 00:29:06,800

What the heck? Let me get him!

471

00:29:06,800 --> 00:29:09,800

But will it be last orders for the myth?

472

00:29:09,800 --> 00:29:11,800

Woo-hoo!

473

00:29:11,800 --> 00:29:12,800

Myth!

474

00:29:16,800 --> 00:29:20,800

Do not try what you are about to see at home. We're what you would call experts.

475

00:29:21,800 --> 00:29:27,800

Welcome back. In this episode, we've been investigating mythical ways in which illegal alcohol stills might meet their end,

476

00:29:27,800 --> 00:29:30,800

hopefully via a destructive, all-encompassing explosion.

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00:29:30,800 --> 00:29:32,800

That whole thing is going down.

478

00:29:32,800 --> 00:29:36,800

I know it might look like I'm standing in the aftermath of a successful explosion,

479

00:29:36,800 --> 00:29:40,800

but in fact, we have to admit that this experimental setup was a bit of a dud.

480

00:29:40,800 --> 00:29:42,800

The still is totally destroyed.

481

00:29:43,800 --> 00:29:47,800

And so we built a second shed. Exactly the same as the first, except in this one,

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00:29:47,800 --> 00:29:50,800

we will be investigating a totally different kind of explosion.

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00:29:50,800 --> 00:29:53,800

We will have Jamie still in here, and we're going to pop a leak in it.

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00:29:53,800 --> 00:29:56,800

Now, the hole in the middle of it will be a perfect leak.

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00:29:56,800 --> 00:30:01,800

When we have what we consider enough vapor, we will introduce an open flame.

486

00:30:01,800 --> 00:30:02,800

Woo!

487

00:30:02,800 --> 00:30:06,800

We consider this to be the highest possible explosion in the world.

488

00:30:06,800 --> 00:30:08,800

We will introduce an open flame.

489

00:30:08,800 --> 00:30:09,800

Woo!

490

00:30:09,800 --> 00:30:14,800

We consider this to be the highest percentage possibility of yielding the type of

491

00:30:14,800 --> 00:30:18,800

bye-bye shack fireball that we were looking for.

492

00:30:18,800 --> 00:30:24,800

Well, that ought to do it. Heat there, alcohol in there, alcohol vapor out here.

493

00:30:24,800 --> 00:30:25,800

Boom.

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00:30:26,800 --> 00:30:30,800

Well, boom, so long as the moon shine-to-air ratio is right.

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00:30:31,800 --> 00:30:36,800

Alcohol vapor becomes flammable between 3 and 19% when combined with air.

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00:30:36,800 --> 00:30:41,800

The ideal ratio is 7, though, and so that's what we're going to be aiming for.

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00:30:41,800 --> 00:30:46,800

But the thing is, our alcohol sensors are proven to be not so reliable,

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00:30:46,800 --> 00:30:50,800

so what we're going to have to do is measure the oxygen content in the room.

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00:30:50,800 --> 00:30:53,800

There's our sensor right there. Perfect.

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00:30:53,800 --> 00:30:59,800

So we know that when we reach an oxygen concentration of about 19.5%

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00:30:59,800 --> 00:31:03,800

as opposed to its normal 20.9% in the atmosphere,

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00:31:03,800 --> 00:31:08,800

we'll have our ideal 7% concentration of alcohol vapor,

503

00:31:08,800 --> 00:31:10,800

and that's going to give us our best shot.

504

00:31:10,800 --> 00:31:14,800

And to ensure ignition, they're using their small-scale technique.

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00:31:14,800 --> 00:31:17,800

Time to soak our ignition source in lighter fluid.

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00:31:17,800 --> 00:31:20,800

But that leaves one key question.

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00:31:21,800 --> 00:31:23,800

How would this happen in the real world?

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00:31:23,800 --> 00:31:26,800

Let's say our moonshiner is out of smoke,

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00:31:26,800 --> 00:31:29,800

and so he drives to town, leaving the still operating,

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00:31:29,800 --> 00:31:31,800

not knowing that there's a leak in it.

511

00:31:31,800 --> 00:31:38,800

He comes back with his cigarettes, opens the door, lights one, and up she goes.

512

00:31:40,800 --> 00:31:42,800

My prediction here is pretty straightforward.

513

00:31:42,800 --> 00:31:44,800

You know, I like the overalls.

514

00:31:44,800 --> 00:31:46,800

They make caring come a lot easier.

515

00:31:46,800 --> 00:31:49,800

I think this thing's going to go cuphlump.

516

00:31:49,800 --> 00:31:51,800

I can't possibly do it as loud as it will happen,

517

00:31:51,800 --> 00:31:54,800

but I think the visual cue that it's going cuphlump

518

00:31:54,800 --> 00:31:59,800

is that this entire house is going to leap five feet in the air.

519

00:32:01,800 --> 00:32:04,800

Stills warming up. Now we wait.

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00:32:04,800 --> 00:32:08,800

The wait begins, but will this be the shining scenario

521

00:32:08,800 --> 00:32:11,800

that finally brings the still house down?

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00:32:12,800 --> 00:32:14,800

Starting oxygen reading is 20.9.

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00:32:14,800 --> 00:32:18,800

Our butter zone will be between 19.5 and 20.

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00:32:18,800 --> 00:32:21,800

That's the explosive ratio.

525

00:32:21,800 --> 00:32:25,800

And inside the shack, the oxygen level is slowly inching towards it.

526

00:32:25,800 --> 00:32:29,800

At stand at 20.3, we can't see the vapor,

527

00:32:29,800 --> 00:32:33,800

but it apparently is displacing oxygen, 20.2.

528

00:32:33,800 --> 00:32:38,800

The guys prepare to bide their time as the ethanol fumes fill their hut.

529

00:32:38,800 --> 00:32:40,800

Wow, things are happening in there.

530

00:32:40,800 --> 00:32:42,800

Our feet over here is getting fuzzy.

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00:32:42,800 --> 00:32:44,800

But after just five minutes,

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00:32:44,800 --> 00:32:48,800

the air to moonshine mixture hits their explosive goal.

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00:32:49,800 --> 00:32:50,800

It's 19.5.

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00:32:50,800 --> 00:32:53,800

All right, that's the ideal ratio, shall we?

535

00:32:53,800 --> 00:32:55,800

Yeah, let's see what happens.

536

00:32:55,800 --> 00:32:59,800

Okay, here we go. Moonshining still, explosion.

537

00:32:59,800 --> 00:33:02,800

Wow, ignition.

538

00:33:02,800 --> 00:33:07,800

In three, two, one.

539

00:33:08,800 --> 00:33:11,800

Whoa!

540

00:33:11,800 --> 00:33:13,800

That was an explosion.

541

00:33:13,800 --> 00:33:15,800

That was beautiful.

542

00:33:16,800 --> 00:33:21,800

Yep, the still huffed and puffed and blew the house down.

543

00:33:22,800 --> 00:33:24,800

That worked perfectly.

544

00:33:24,800 --> 00:33:27,800

That worked absolutely perfectly. Let's go check out the damage.

545

00:33:27,800 --> 00:33:28,800

Okay.

546

00:33:28,800 --> 00:33:31,800

Ah, it looks like the still's holding the building up.

547

00:33:31,800 --> 00:33:34,800

I wouldn't have expected that.

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00:33:34,800 --> 00:33:38,800

And it did blow apart the building as well as lifted off the foundation.

549

00:33:38,800 --> 00:33:42,800

It did, but not five feet like I predicted, more like one foot.

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00:33:43,800 --> 00:33:47,800

Well, that was as awesome as our first experiment was disappointing.

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00:33:48,800 --> 00:33:53,800

We actually got a kahuup, a genuine poof, and a failure of our entire structure.

552

00:33:53,800 --> 00:33:58,800

The only thing holding this building up at this point is the still that is inside it.

553

00:33:59,800 --> 00:34:03,800

What's interesting, though, to me is that we didn't see a thing.

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00:34:03,800 --> 00:34:05,800

That room was not cloudy.

555

00:34:05,800 --> 00:34:11,800

There was nothing like any kind of teapot steam coming out of that nozzle, which I kind of expected.

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00:34:11,800 --> 00:34:15,800

So, you know, if you were a moonshiner and you opened that door,

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00:34:15,800 --> 00:34:19,800

you wouldn't have any idea what was going on until it was too late.

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00:34:20,800 --> 00:34:25,800

Which means clearly this leaky still scenario is confirmed.

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00:34:25,800 --> 00:34:26,800

So what does this tell us?

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00:34:26,800 --> 00:34:32,800

Well, I think first and foremost we learned that a home-built still does not a destructive pressure vessel make.

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00:34:32,800 --> 00:34:37,800

Yes, but a leakin' still can create enough fumes to blow a building apart.

562

00:34:37,800 --> 00:34:39,800

Yeah, making moonshine is dangerous business.

563

00:34:39,800 --> 00:34:42,800

And we ain't even started drinking it yet.

564

00:34:42,800 --> 00:34:43,800

Let's remedy that.

565

00:34:51,800 --> 00:34:56,800

Every single thing we investigate on Mythbusters has to do with a transfer of energy.

566

00:34:57,800 --> 00:35:01,800

From one state to another, from one form to another, from one place to another,

567

00:35:01,800 --> 00:35:04,800

often rapidly and hopefully with disastrous results.

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00:35:04,800 --> 00:35:12,800

So just check this out and watch how the rapid combustion of all the alcohol fumes in the shack causes it to expand.

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00:35:12,800 --> 00:35:17,800

The inrush of oxygen causes fire to just appear almost everywhere.

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00:35:17,800 --> 00:35:24,800

The corona of flame around the perimeter as the atmosphere is combining with the oxygen and the gas fumes

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00:35:24,800 --> 00:35:29,800

in order to set everything on fire as well as the total destruction of the shed.

572

00:35:29,800 --> 00:35:31,800

This is the best part of the job.

573

00:35:36,800 --> 00:35:39,800

Thunder Hill brings back memories, huh?

574

00:35:43,800 --> 00:35:44,800

You going down, sucker?

575

00:35:44,800 --> 00:35:45,800

Get out of the kitchen.

576

00:35:45,800 --> 00:35:49,800

We're back at Thunder Hill, the same place where we tested IndyCar Myth.

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00:35:49,800 --> 00:35:53,800

But this time we're playing cops and moonshiners.

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00:35:53,800 --> 00:35:56,800

We're trying to see if moonshine will outperform gasoline.

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00:35:56,800 --> 00:35:59,800

But so far it looks like they're pretty close.

580

00:35:59,800 --> 00:36:02,800

You beat it by two seconds.

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00:36:02,800 --> 00:36:06,800

But now it's time for our next test, longevity.

582

00:36:06,800 --> 00:36:11,800

What we need to simulate here is a long car chase down a windy road.

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00:36:11,800 --> 00:36:13,800

And that's why Thunder Hill is ideal.

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00:36:13,800 --> 00:36:14,800

It's got twists.

585

00:36:14,800 --> 00:36:15,800

It's got turns.

586

00:36:15,800 --> 00:36:17,800

It's got a straightaway.

587

00:36:17,800 --> 00:36:21,800

All right, we about to start our moonshine run experiment.

588

00:36:21,800 --> 00:36:22,800

This is how it's going to go.

589

00:36:22,800 --> 00:36:24,800

Chiefs really get on my nerves.

590

00:36:25,800 --> 00:36:28,800

Tori and I are going to be waiting next to that billboard right there.

591

00:36:28,800 --> 00:36:30,800

We are cops eating donuts.

592

00:36:30,800 --> 00:36:32,800

He's giving us these bum beats.

593

00:36:32,800 --> 00:36:34,800

There's plenty of donuts.

594

00:36:34,800 --> 00:36:40,800

Now when Grant races by in his moonshine vehicle, we are going to drop our donuts and jump in the car.

595

00:36:40,800 --> 00:36:43,800

Grant's going to enter the Thunder Hill Raceway track.

596

00:36:43,800 --> 00:36:47,800

Now when he does three laps, that's 10 miles.

597

00:36:47,800 --> 00:36:50,800

If in that time we can catch up to him in our gas powered vehicle,

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00:36:50,800 --> 00:36:52,800

then the myth is busted.

599

00:36:52,800 --> 00:36:55,800

If he makes it away from us, it's confirmed.

600

00:36:55,800 --> 00:36:58,800

And over on the wrong side of the tracks.

601

00:36:59,800 --> 00:37:02,800

Yes! Good to go.

602

00:37:06,800 --> 00:37:07,800

Moog honours!

603

00:37:07,800 --> 00:37:09,800

What the heck? Let's get him.

604

00:37:09,800 --> 00:37:13,800

As Grant powers past the police, the chase is on.

605

00:37:15,800 --> 00:37:16,800

Here we go.

606

00:37:16,800 --> 00:37:18,800

Woohoo!

607

00:37:20,800 --> 00:37:26,800

With just over 10 miles of high speed, high tail in, hot pursuit and to go,

608

00:37:27,800 --> 00:37:32,800

this is the ultimate test of endurance for the unconventional fuel.

609

00:37:32,800 --> 00:37:36,800

Come on moonshine! You can do it!

610

00:37:38,800 --> 00:37:41,800

Both drivers are giving it everything they've got.

611

00:37:41,800 --> 00:37:43,800

Woohoo! We can get him.

612

00:37:43,800 --> 00:37:46,800

Pushing their vehicles to the limit.

613

00:37:48,800 --> 00:37:51,800

This is insane. He's performing like he's driving on gas.

614

00:37:51,800 --> 00:37:54,800

The moonshine is unbelievable.

615

00:37:55,800 --> 00:38:00,800

Yep, incredibly. Grant with his tank full of good old white lightning.

616

00:38:02,800 --> 00:38:04,800

Is hanging on to his lead.

617

00:38:05,800 --> 00:38:08,800

Alright, so I gotta say, going into the next round,

618

00:38:08,800 --> 00:38:10,800

I was a little dubious.

619

00:38:10,800 --> 00:38:13,800

They are never gonna catch me.

620

00:38:13,800 --> 00:38:18,800

As I went in, I started driving and the first lap around, I was being really careful.

621

00:38:19,800 --> 00:38:23,800

And then once I started to gain confidence, I put the pedal to the metal.

622

00:38:26,800 --> 00:38:31,800

The moonshine performed just as well as the gas lane, if not better.

623

00:38:31,800 --> 00:38:34,800

Yes! Take that coppers, I made it!

624

00:38:35,800 --> 00:38:37,800

Moonshine! Woohoo!

625

00:38:38,800 --> 00:38:43,800

After 10 miles of pedal to the metal, Grant and his hooch have passed the endurance test.

626

00:38:44,800 --> 00:38:46,800

He's gonna be smug.

627

00:38:46,800 --> 00:38:48,800

Yep, I can tell.

628

00:38:48,800 --> 00:38:50,800

That is one smug moonshine.

629

00:38:51,800 --> 00:38:54,800

And successfully escaped the long arm of the law.

630

00:38:54,800 --> 00:38:55,800

Let's go.

631

00:38:55,800 --> 00:38:57,800

That is one smug moonshine.

632

00:38:57,800 --> 00:39:00,800

And successfully escaped the long arm of the law.

633

00:39:00,800 --> 00:39:02,800

Let me see your hands!

634

00:39:02,800 --> 00:39:05,800

I got nothing, I just got fuel in my car, officer!

635

00:39:06,800 --> 00:39:08,800

Well that was some fun driving, son.

636

00:39:08,800 --> 00:39:10,800

Wow, there's no way we could catch up to you.

637

00:39:10,800 --> 00:39:14,800

Yeah, I mean you were driving as if you were driving with gas.

638

00:39:14,800 --> 00:39:17,800

You know what, there was no problems at all here on the track.

639

00:39:17,800 --> 00:39:19,800

Are we confirming this myth?

640

00:39:19,800 --> 00:39:21,800

I can't believe it, but I think we are.

641

00:39:21,800 --> 00:39:24,800

I think it's confirmed. Moonshine is good as gasoline.

642

00:39:25,800 --> 00:39:31,800

But before you get your hopes up about moonshine, Carrie has some fuel for thought.

643

00:39:31,800 --> 00:39:34,800

At this point I feel like people are gonna start trying to put moonshine in their car.

644

00:39:34,800 --> 00:39:36,800

That's not necessarily a good idea.

645

00:39:36,800 --> 00:39:39,800

Cars are not made to have alcohol running through them.

646

00:39:39,800 --> 00:39:43,800

And we used so much moonshine compared to gasoline.

647

00:39:43,800 --> 00:39:47,800

The gas mileage? Not so good when you use a moonshine.

648

00:39:47,800 --> 00:39:49,800

Might as well just keep it in your cabinet and drink it.

649

00:39:56,800 --> 00:39:59,800

What are we doing back in the blueprint room? I thought we wrapped.

650

00:39:59,800 --> 00:40:07,800

Indeed we did, but we just got hot off the presses some news that may change the origins of the story of the exploding still.

651

00:40:07,800 --> 00:40:08,800

What?

652

00:40:08,800 --> 00:40:12,800

Okay, I want you to cast your mind back to the days you were an illegal distiller.

653

00:40:12,800 --> 00:40:15,800

If you knew the cops were coming, what would you do?

654

00:40:15,800 --> 00:40:16,800

I'd get the heck out of there.

655

00:40:16,800 --> 00:40:22,800

Exactly, illegal distillers would try and remove any evidence of their illegal operation.

656

00:40:22,800 --> 00:40:25,800

And they would do it in a way that we are very familiar with.

657

00:40:25,800 --> 00:40:26,800

With explosives.

658

00:40:26,800 --> 00:40:27,800

Exactly.

659

00:40:27,800 --> 00:40:33,800

So, for a new finale for this myth, we are going to use the oldie method of destroying the evidence.

660

00:40:33,800 --> 00:40:35,800

We're gonna blow it all up.