
From: jeffrey E. <████████>
Sent: Saturday, June 20, 2015 7:11 PM
To: Peter Attia
Subject: Re:

i did not repaint ANS, =C2 fuel expands when heated, . so though the plane intially=took the same amount of fuel the black wings heated the fuel and thr=w it overboard.!!!

On Sat, Jun 20, 2015 at 3:05 PM, Peter Attia =lt;████████<mailto:████████>> wrote:

I have a few ideas, and if wrong a few questions =80

Other ideas:

1.=C2 Even though you dismissed weight, I wonder if there is=something about the weight that alters the optimal fuel burn ration during=takeoff when thrust is highest that hinders range down line?=/p>

2.=C2 Does the pain alter the high lift devices such that ta=eoff and landing are less fuel efficient?

Observations:

1.=C2 I've never seen a commercial jet painted black=E2 I wonder if the problem is the color or the application/variant y=u used

2.=C2 Supersonic jets (no need for Bernoulli) are black all =he time (though this may have more to do with anti-radar) and/or they may =e willing to give up range in exchange for these

3.=C2 I was trying to do a Gedankenexperiment <<http://www.merriam-webster.com/dictionary/gedankenexperiment>> to simplify the problem: imagine two fast cars, identical in every=way, except one is pained black. Would the same range-reduction effect be =bserved? If not, would it be because cars are dominated by rolling resistance and form drag, while subsonic pla=es are dominated by skin friction? Or would the effect be absent because t=e speeds are too low?

Lastly, a question:

When you "undid" this black paint th=ng, did you strip off the black paint, or did you just re-paint? If the la=ter, did you recoup the lost range?

P

From: jeffrey =. [mailto: [REDACTED] <mailto: [REDACTED]>]
Sent: Saturday, June 20, 2015 5:34 AM
To: Peter Attia
Subject:

figure it out yet

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please no=e

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