

Inspect

Tanks

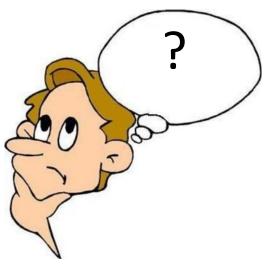
Maintain

Clean

































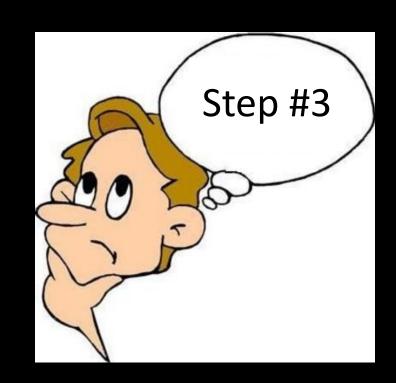
















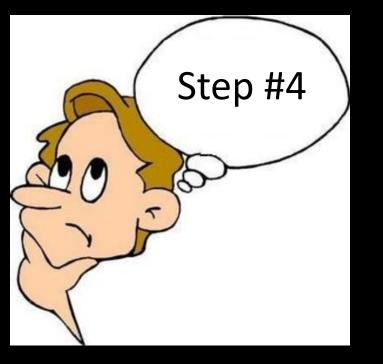


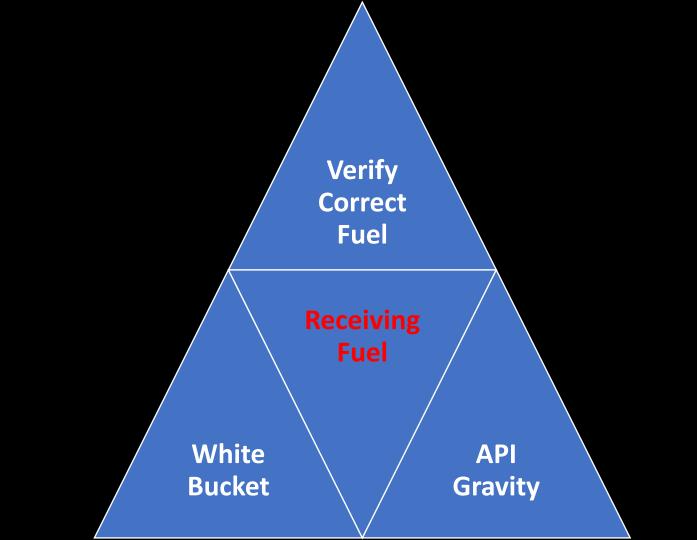












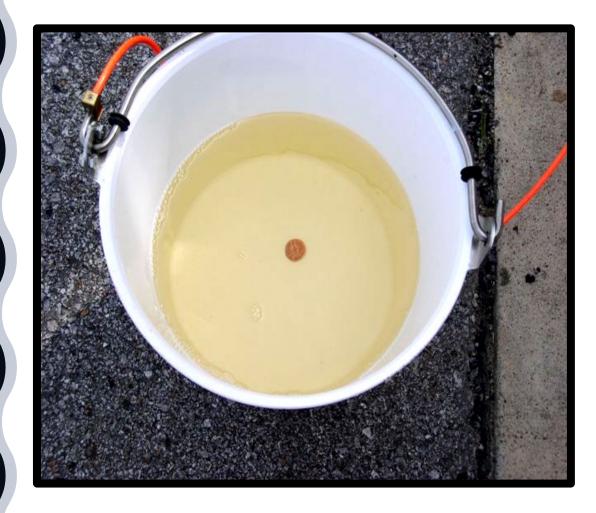
White Bucket

Is there Water in Fuel?

Yes

Dissolved Water (Water in Solution)

Free Water (Undissolved Water)



Rating a White Bucket Sample

Solid Contaminant Rating

- 1 Clear
- 2 Slight particulate matter
- 3 Particulate matter
- 4 Dirty

Moisture Content Rating

- A Bright
- B Hazy
- C Cloudy
- D Wet (free water)
- E Surfactants

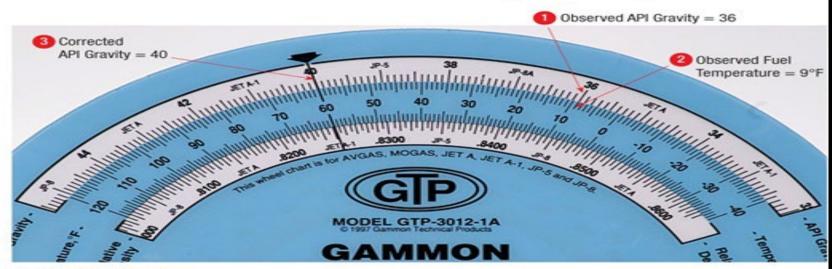
API Gravity

Measure the gravity (density) of fuel; a significant change may indicate contamination by another product

Verify that the corrected API Gravity is within +/1° API of the BOL API Gravity



API Corrected Gravity Example



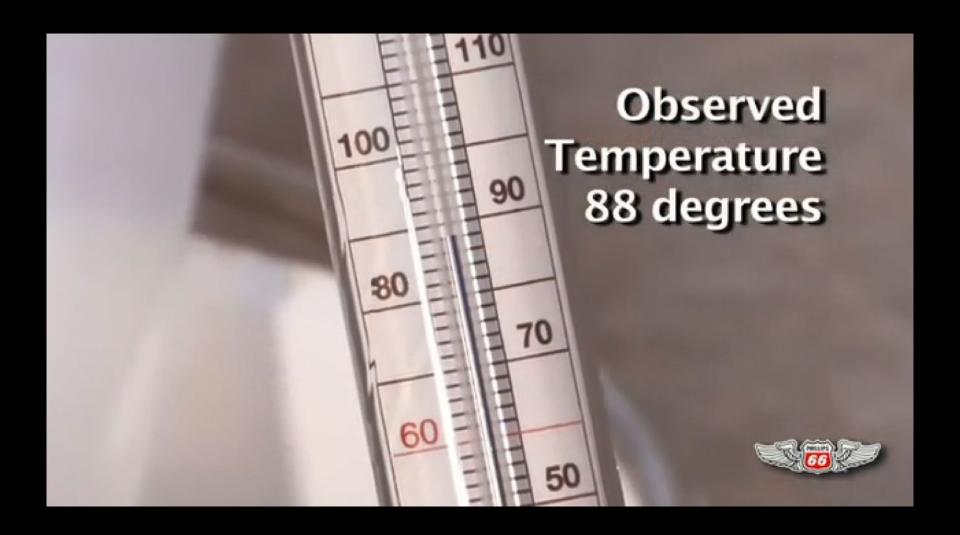
API Gravity Instructions

- Align the Observed API Gravity reading from the hydrometer (outer white ring)
 with the Observed Fuel Temperature reading from the thermometer (blue ring).
- . Read the Corrected API Gravity at the 60°F line. (3)

Fuel Receipts

- Record the Observed API Gravity, Observed Fuel Temperature and Corrected API Gravity.
- Prior to accepting the load, verify the Corrected API Gravity is within +/- 1° API of the value reported on the Bill
 of Lading

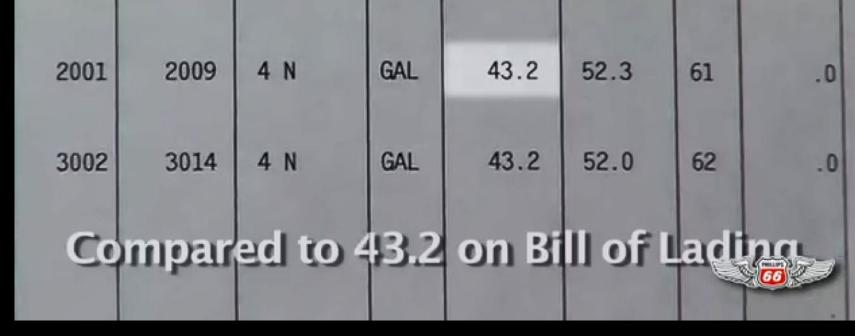




Observed API Gravity was 46 and the Observed Temperature was 88 degrees



Compare your Corrected API Gravity of 43.5 to the Bill of Lading API Gravity of 43.2 assigns. 833 MEAS ADD/BLEND GRAVITY NET TEMP/PSI GRS MTR OCTANE 3000 3014 4 N GAL 43.2 51.6 61 2009 GAL 43.2 52.3 2001 4 N 61 43.2 52.0 3002 4 N GAL 62 3014



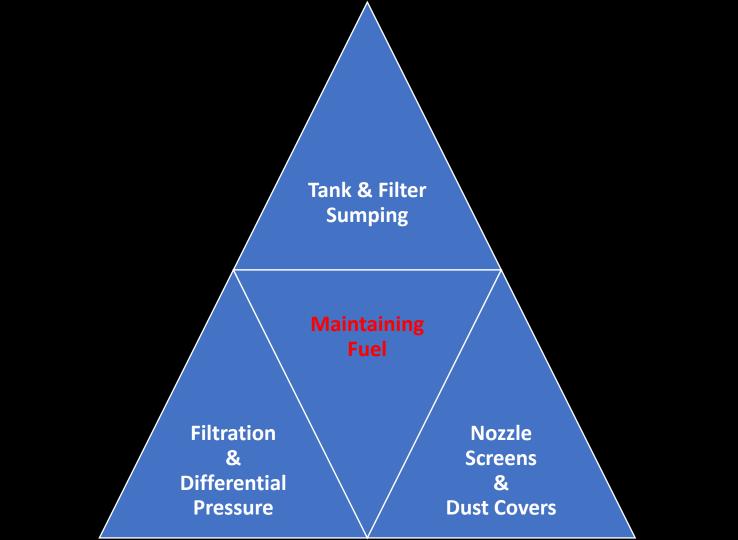
Receipt of Fuel Toolboxes





A simple fix that can help you avoid a costly mistake...

"Label and Secure "Your" Fill Points"

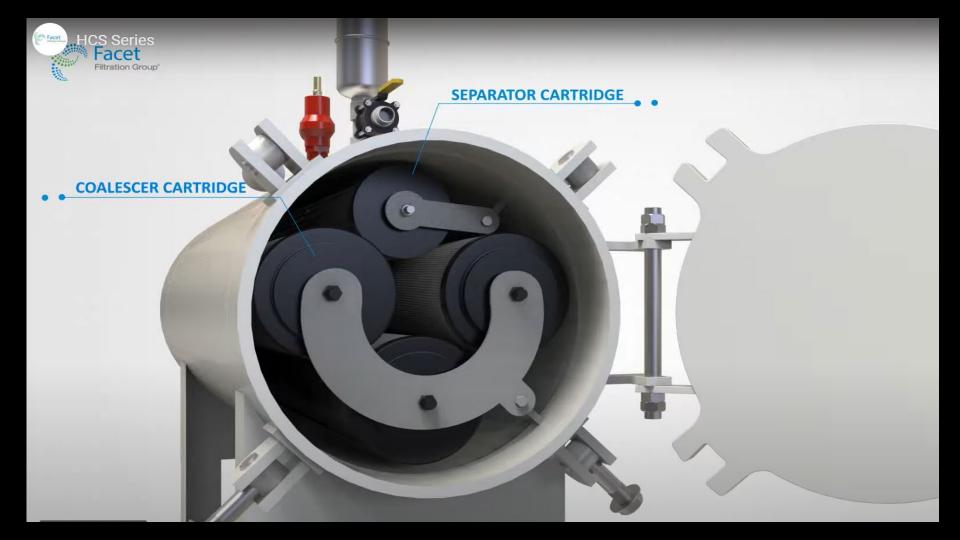


White Bucket

Tank & Filter Sumping?

- 1. Looking for Water & Particulates
- 2. Also, anything else that does not look normal
- 3. Clean, Dry, On Spec Fuel is the Goal
- People are depending on you





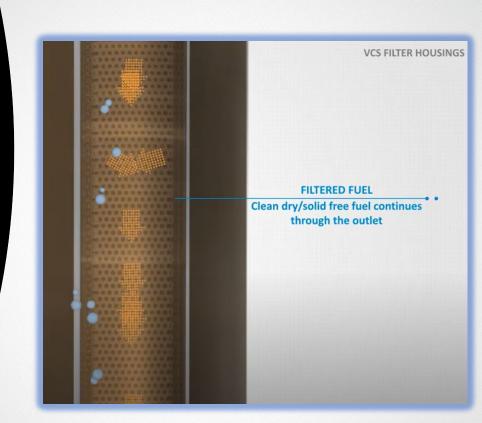
1st Stage – Coalescer Element

- Removes particulate contaminants
- Coalesce entrained free water into big water droplets
- Fuel flow direction "Inside to Out"



2nd Stage – Separator Element

- Repels previously coalesced water droplets
- Elements made of water repellent material (Teflon or Synthetic material)
- Fuel flow direction "Outside to In"



Are Your Filter Elements...

- Latest Edition
- Correct for Fuel Type

Coalescer / Separator (Two-Stage)

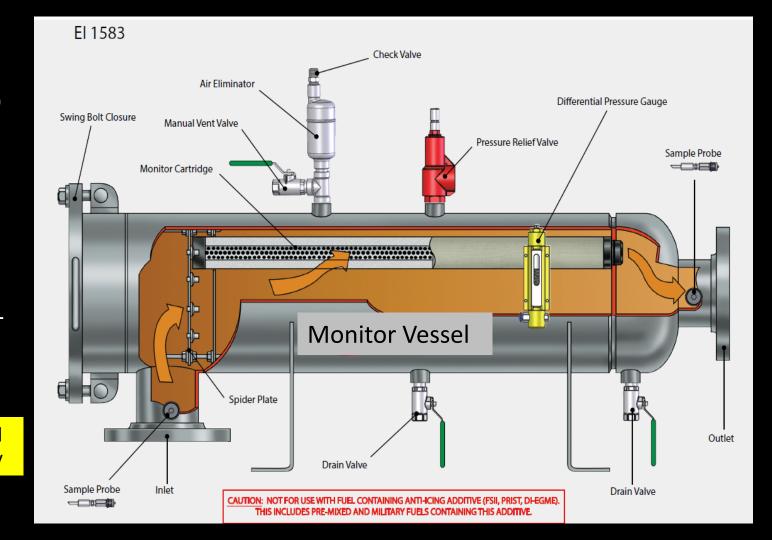
- ➤ El 1581 6th Edition (Category C)
 - Jet A
 - Avgas 100LL
- ➤ EI 1581 6th Edition (Category M)
 - Jet A with FSII
 - Jet A
 - Avgas 100LL

Monitor (Water Absorbing)

EI 1583 7th Edition

Jet A Avgas 100LL

Being Discontinued by Aviation Industry



Monitor

(Water Absorbing)

EI 1583 7th Edition Jet A Avgas 100LL

- Removes particulate contaminants
- Removes free water with a water absorbing material called SAP (Super Absorbent Polymer)
- Fuel flow direction "Outside to In"
- Should never be used with fuel containing FSII (Fuel System Icing Inhibitor)
 - Prist
 - Dice
 - DiEGME
 - Anti-Icing Additive

Being Discontinued by Aviation Industry

New Filter Technology replacing Monitors

Water Barrier Filtration by Velcon Filters

- Removes particulate contaminants
- Water droplets are blocked by hydrophobic material
- Fuel flow direction "Outside to In"
- Can be used with fuel containing FSII (Fuel System Icing Inhibitor)
 - Prist
 - Dice
 - DiEGME
 - Anti-Icing Additive

GAMMON GAUGE™

Direct Reading Differential Pressure Gauge

Why settle for less when you can have the tried and true **original?**Designed and Manufactured in the U.S.A.



ORIGINAL MODEL



GTP-8980 GAMMON GAUGE™ CONTROL SYSTEM Meets ATA-103 and IATA JIG Bulletin 58.



GTP-534-PB-PH PEAK-HOLD With Push Button TEST VALVE

The PEAK-HOLD feature registers the highest reading, locking the piston so the operator can see maximum differential pressure for the most recent fueling operation. Turning the large knob releases the piston so that it can return to zero.



GTP-534 PBF PUSH BUTTON IN FRONT (optional button position)



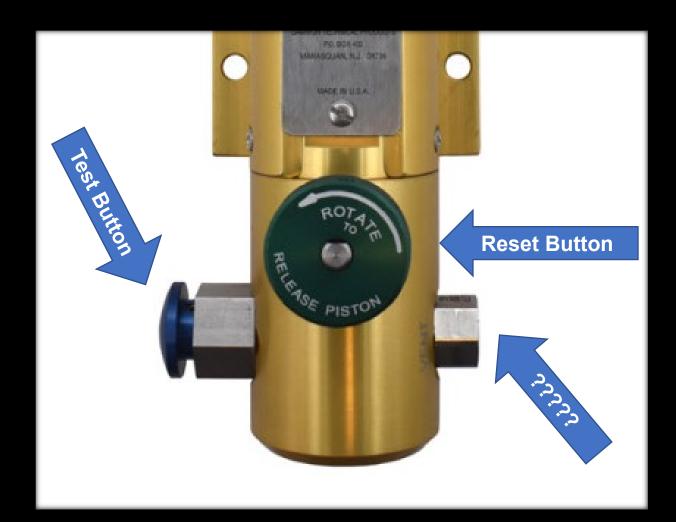
GTP-534 PB PUSH BUTTON 3-WAY TEST VALVE

Do all your employees understand
Differential Pressure and why it is so important?

Differential Pressure helps determine the condition of your Filter Elements



GTP-534-PB-PH PEAK-HOLD With Push Button TEST VALVE

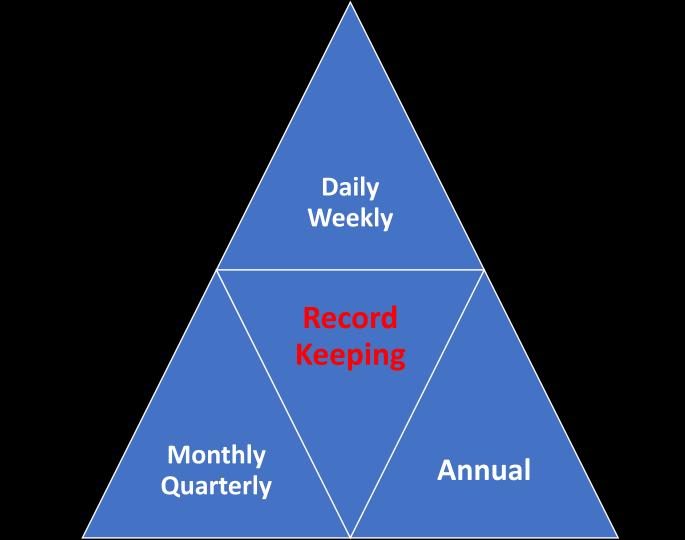




With Push Button TEST VALVE

Does your FBO document Differential Pressure?

- During off-load of product from transport
- During transfer of product to the refueler
- During sell of product to aircraft





Good organization is the key to finding information when you need it.

- Aircraft Incident
- Customers Questions
- Audits



TRUSTED AVIATION FUEL

As one of the largest refiners in the United States and a top supplier of jet fuels and avgas to private, commercial, and military aviation - Phillips 66® Aviation is dedicated to producing fuels that keep our industry flying and providing the technical support to ensure that your FBO is ready to deliver clean, dry and on-spec fuel to your customers.

www.TrustedFuel.com







Phillips 66® and Afton Chemical have teamed up to develop an unleaded, 100-grade aviation gasoline (UL100), Follow the history and the future of AvGas.

LEARN MORE



You can feel confident knowing that Phillips 66 Aviation has the fuel supply and a range of FBO programs to help assure your success.

LEARN MORE



PHILLIPS 66 BRANDED FBO

The complete Online Resource Center for Fuel Handlers is available to Phillips 66 Branded FBO's.

LOGIN NOW

We are sharing some of our

ONLINE

RESOURCES

educational and training resources from TrustedFuel.com so you can see what is available on our online resource center.

LEARN MORE



Home About Online Training On-Site Training Events Contact Us FAQ Cart

Aviation Training Academy

Online Training

On-Site Training

A New Way to Train

SAFETY 1ST TRAINING CENTER

www.NATA.aero





Safety 1st Training Center

Safety 1st Support

SMS Resources

Safety 1st Resources

 What's New with the Safety 1st Training Center

Getting Started with Safety 1st

Safety 1st Clean

Fuel QC Management System

▶ ISBAH

Misfueling Prevention Program

Part 135 Training Center

Views from the Ramp Podcast

Safety 1st Verify



The new Safety 1st. Training Center introduces exciting features, content, and flexibility, shifting the focus of your training program from simple compliance to true employee learning and development. Providing standardized training and support, NATA Safety 1st, is the leading resource for preparing individuals to safely handle general and business aviation aircraft.









Home

Courses

About Us

Contact Us

FAQ

Forms, Brochures and Resources

Misfueling

Login

Create an

Q Search

www.SafetyProTC.com

You are here: / Home

CALL TODAY TO DELIVER SAFETYPRO TRAINING COURSES ON YOUR LEARNING MANAGEMENT SYSTEM 877-322-7139





About the FAASTeam

Search FAASafety Website

Activities, Courses, Seminars & Webinars Maintenance Hangar Pilots Resources Page Help

FAA Safety Team Safer Skies Through Education

Featured Courses

Earn WINGS or AMT Credit by completing one of our featured online courses!

 Conducting Preflight Self-Briefings for Student and VFR Pilots

Part 107 Small UAS Recurrent

Part 107 Small UAS Recurrent - Part 61 Pilots Part 107 Small UAS Initial - Part 61 Pilots

Hot Topics Need Help with WINGS?

Click to Find a WINGS Pro Near You

Find one near you.

Ask a WINGS Pro

Thousands of aviation safety seminars take place annually around the nation.

Upcoming Seminars

miles Search

Find Seminars ®

Welcome Guest Login Here

LOGIN TO YOUR ACCOUNT

Login: Enter Email Address My Email Has Changed

Forgot Password | Help Go

New to FAA Safety.gov? Create an Account | About FAASTeam

AMT Awards

DC SFRA

AC 65-25

The AMT Awards program encourages AMTs and employers to take advantage of initial and recurrent

training by issuing awards based on training received.

. Tutorial for Individuals . Tutorial for Employers

14,545 AMT Awards Earned in 2021

Learn more! 3

WINGS AC 61-91J Instructor Portal

Next

WINGS - Learn More!

Quick WINGS



User Guide ®

Previous

By virtue of holding instructor privileges, instructors can validate or give immediate WINGS credit through this portal.

Click Here to give immediate WINGS flight credit.

WINGS Flight Instructor Guide

Enter Instructor Portal ®

WINGS Achievements



Password:

earned at least one phase in the WINGS -Pilot Proficiency

Program, and these pilots have earned a total of 218,548 phases.

See the list and find your name

www.faasafety.gov

FAASTeam Directory

Search by phone number, first or last name, city or state, position or keyword.

Search

Click here to find FAASTeam leaders in your state.

FAASTeam Industry Members

FAASTeam Industry Members are industries, organizations, businesses and associations that support the FAASTeam at a national level and who have a vested interest in aviation safety. Click below for more information. Bulldog Aviation Club

· Civil Air Patrol, Inc.

Flight School Association of North





MISFUELING PREVENTION PROGRAM

- Safety 1st Training Center
- ▶ Safety 1st Clean
- Fuel QC Management System
- ▶ ISBAH
- Misfueling Prevention Program
 - Misfueling References
- Part 135 Training Center
- Views from the Ramp Podcast
- Safety 1st Verify
- Safety 1st onSITE





General Aviation Misfueling Prevention is an awareness program for all aircraft refueling stakeholders. Whether you have completed the first generation program or not, you will want to be sure to update your training today! The new program refreshes the original content and addresses new misfueling risks associated with unleaded avgas and the introduction of an additional grade of fuel at airports Misfueling is preventable if we all work together!

NATA Operational Best Practices

> Additional Resources

Fuel Type and Grade Confirmation Form

DEF Contamination Prevention El 1597 Publication & Misfueling Prevention Video

Learn More About Safety 1st Training

www.PreventMISFUELING.com

Questions...

Receiving Fuel

Training

Maintaining Fuel

Record Keeping

